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An annotated catalogue of blister-beetles (Coleoptera: Tenebrionoidea: Meloidae) of Iran

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Abstract

This paper represents the first comprehensive list of Iranian Meloidae and shows that Iran has a highly diverse fauna for the region. In total, 230 species and subspecies from two subfamilies, Meloinae (201 species within 22 genera) and Nemognathinae (29 species within 10 genera) are listed. Of the total species listed here, *Apalus bimaculatus* (LINNAEUS, 1761) and *Meloe (Eurymeloe) scabriusculus* BRANDT & ERICHSON, 1832 were found as new records in the country. Forty species are endemic for Iran, and three species are doubtful.

Zusammenfassung

Die vorliegende Arbeit beinhaltet die erste umfassende Liste der Meloidae des Iran und zeigt, dass der Iran eine hochdiverse Fauna in dieser Region besitzt. Insgesamt werden 230 Arten und Unterarten aus zwei Unterfamilien aufgelistet: Meloinae mit 201 Arten aus 22 Gattungen und Nemognathinae mit 29 Arten aus 10 Gattungen. *Apalus bimaculatus* (LINNAEUS, 1761) und *Meloe (Eurymeloe) scabriusculus* BRANDT & ERICHSON, 1832 werden neu für den Iran gemeldet. 40 Arten sind für den Iran endemisch, drei Arten sind zweifelhaft.

Introduction

The family Meloidae (Coleoptera: Tenebrionoidea) include about 120 genera and ca.3000 species (BOLOGNA 1991; BOLOGNA et al. 2008a, 2010; BOLOGNA & DI GIULIO 2011). Blister beetles they well known in the entomological literature primarily because of the presence of cantharidin in their body. This natural substance is a terpenoid with a defensive and possibly aggregative role in Meloidae and is linked to the complex and prolonged sexual behaviour in the subfamily Meloinae (SELANDER 1964; BOLOGNA 1991). The cantharidin it is causes of toxicosis or fatal diseases for horses and other livestock and has been used for several purposes in popular pharmacology for over two millennia, mainly as a sexual stimulant, or for anti-inflammatory, anti-wart, anti-hydrophobic and recently anti-tumoral purposes (BOLOGNA 1991; NIKBAKHTZADEH et al. 2007; BOLOGNA et al. 2010; GHONEIM 2013a). This beetle family is widely studied also

in the biological literature due to its hypermetamorphic life cycle and parasitoid biology of its larval phases, these being common to all Meloidae (ÖZBEK & SZALOKI 1998; BOLOGNA & PINTO 2001). The hypermetamorphic life includes seven larval instars divided into five morphologically and biologically distinct phases adapted to: (a) reach the host, in several cases by phoresy (triungulin); (b) feed (larval instars II–V); (c) survive from stressful periods (hypnotheca or quiescent sixth instar); (d) prepare the metamorphosis (instar VII); (e) to complete the metamorphosis (pupa). Adults are mostly diurnal and phytophagous feeding on flowers and leaves of several families of plants, particularly Asteraceae, Leguminosae, and Solanaceae (ÖZBEK & SZALOKI 1998). Larvae are predaceous and feeding on the immature stages of aculeate Hymenoptera and egg cases (oothecae) of grasshoppers (BOLOGNA & DI GIULIO 2011; GIULIO et al. 2014). The most important classifications of the Meloidae include those by MACSWAIN (1956), KASZAB (1969), BOLOGNA (1991), SELANDER (1991), PINTO & BOLOGNA (1999), and BOLOGNA & PINTO (2002). BOLOGNA & PINTO (2002) recognize four subfamilies: Eleticinae, Meloinae, Tetraonycinae and Nemognathinae. They are almost cosmopolitan occurring throughout the world except in New Zealand, Antarctica and Polynesian Islands. Its diversity is greatest in arid and semiarid regions. Of the 77 Old World genera, 53 occur in the Palaearctic, 40 in the Afrotropical and 22 in the Oriental regions. Fifteen genera are common to the Afrotropical and Oriental regions, 19 to the Afrotropical and Palaearctic regions, and 13 to the Oriental and Palaearctic regions. Our interest was recently addressed to the Iranian Subfamilies: Meloinae and Nemognathinae. Biogeographically, Iran is included in the Palaearctic regions. Geographically, represents a large part of the Iranian plateau, and covers an area of 1,623,779 km². Climatologically, it can be described as a predominantly arid and semi-arid region, 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; HAKIMZADEH KHOEI et al. 2012). The aims of this paper are: (i) to publish a catalogue of Iranian species with all records from both literature and collections; (ii) to provide an identification key to the Iranian genera.

Material and Methods

We conducted an exhaustive search of all publications, including all catalogs and specialized literature, dealing with the species treated in this contribution. Nomenclature follows previous authors, especially those who made revisions of these two tribe, such as: BOLOGNA & DIGIULIO (2006), TURCO & BOLOGNA (2007, 2008, 2011), BOLOGNA (2008), BOLOGNA et al. (2008b), and AHMMET & MUHABBET (2010).

In the catalogue the subfamilies, tribes, genera and species are listed alphabetically. The reported data of each species comprised the following terms: (1) valid name, (2) junior synonym (3) Iranian records for each province alphabetically ordered, (4) references chronologically ordered, (5) synthetical information on general distribution on a world scale (6) and feeding habits. On the other hand, for the updated addition or change, the exact references are provided. When accurate data of local distribution in Iran were lacking in a quoted reference, "Iran (no locality cited)" was used. Number of valid species of the world is given in brackets after each genus. Additionally, the names

"Perse", "Persia" and "Persie" had been retained because these are traditional synonym for Iran. The provinces of Iran are represented in Figure 1. Additionally, the Chrotypes used in this paper, "Arabia", "Caucasus", "Siberia", "Transcaucasia", "Turkestan" are described as below:

Arabia: Chrotype of species occurring in the Arabian Peninsula, from the Red Sea to the Persian Gulf.

Caucasus: Is a region located at the border of Europe and Asia, between Black Sea and Caspian Sea, includes also portions of northwestern Iran and northeastern Turkey.

Siberia: Is a region that extends eastwards from the Ural Mountains to the watershed between the Pacific and Arctic drainage basins. Chrotype of species widespread in Siberia, westwards to the Ural Mountains.

Transcaucasia: Is a geographical region neighbor to the southern Caucasus Mountains on the border of Eastern Europe and Western Asia. Transcaucasia roughly corresponds to modern Georgia, Armenia, and Azerbaijan.

Turkestan: Is a historic area in Central Asia between Siberia to the north and Tibet, India and Afghanistan to the south, the Caspian Sea to the west and the Gobi Desert to the east.

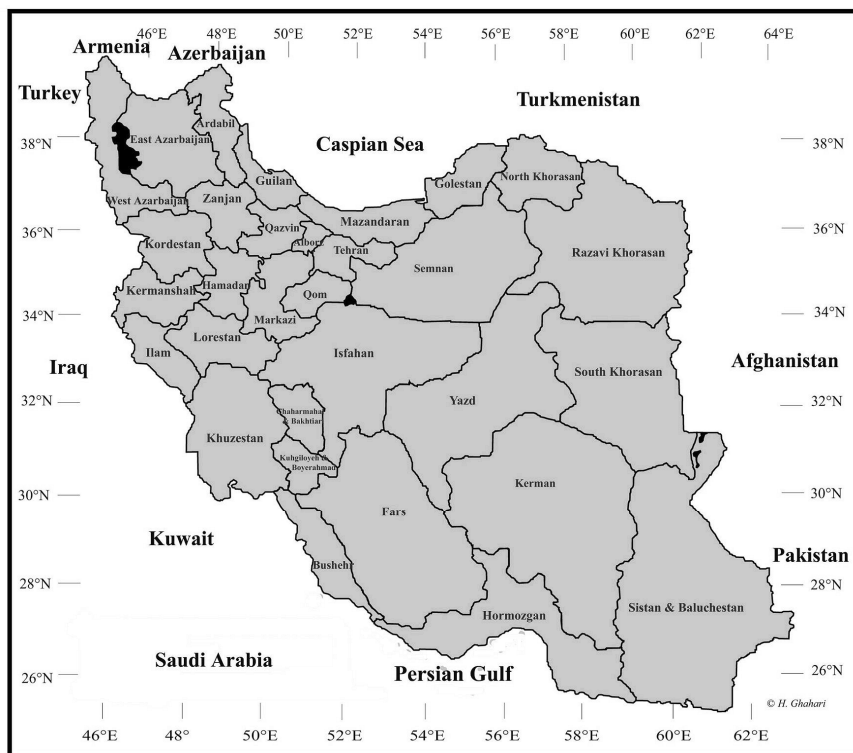


Figure 1. Map of Iran with provincial boundaries.

Results

Totally, 230 Meloidae species and subspecies within 32 genera and two subfamilies (Meloinae and Nemognathinae) have so far been recorded from Iran. Two species (*Apalus bimaculatus* (LINNAEUS, 1761) and *Meloe (Eurymeloe) scabriusculus* BRANDT & ERICHSON, 1832) are newly recorded from Iran, and three species are doubtful and excluded from the fauna of Iran.

Identification key of Iranian genera (from BOLOGNA & PINTO 2002).

- 1 Forefemora with apical half of ventral surface (that opposing tibia) slightly excavate, excavation with a patch of oppressed, transversely directed silky pubescence *Epicauta*
- Forefemora without a ventroapical excavation and lacking a patch of transversely directed pubescence 2
- 2 Antennae short in both sexes, never reaching middle of body, usually extending only to base elytra 3
- Antennae elongate, especially in male reaching middle of body 4
- 3 Elytra completely covering abdomen and wings. Hind tarsal segment I shorter than combined length of segment II and III *Ctenopus*
- Elytra short, not completely covering abdomen and wings. Hind tarsal segment I longer than combined length of segment II and III *Stenoria*
- 4 Eyes particularly in male, large and bulging, extending to maxilla on underside of head. Abdominal sterna II and III in male each with deep, oval, transverse excavation set with long yellow setae *Glasunovia*
- Eyes smaller, not bulging, not extending to maxilla on ventral side of head, if rarely enlarged. Abdominal sterna II and III not as above 5
- 5 Elytra very narrow, lyriform, usually not reaching apex of abdomen; strobly dehiscent from base; distance between elytra at middle at least 1.5 – 2.0X width of each elytron at that point *Sitaris*
- Elytra not as narrow, not lyriform in shape, usually attaining apex of abdomen; dehiscent posterior to base, often only at apical third; elytra contacting at middle, but if separate then distance between them less than 1.5X width of each elytron at that point 6
- 6 External hind tibial spurs very broad, considerably wider than inner spur. Elytra not distinctly narrowed posteriorly with lateral margin only slightly arcuate at posterior two-thirds *Apalus*
- Hind tibial spurs subequal in width. Elytra variable in shape 7
- 7 Maxillary galeae unmodified, not elongate, with tuft of dense relatively elongate medially directed setae. Aedeagus with one or two dorsal hooks, endophallus well sclerotized and hooked; gonoforceps fused only at basal third or half. Male last sternum relatively shallowly V- emarginated, if cleft to base then the divide sections elongate and twisted 8
- Maxillary galeae modified, elongate, either penicillate with a tuft of dense setae confined to apex and directed apically or produced into an elongate sucking tube. Aedeagus without hooks, and endophallus only slightly sclerotized, never hooked; gonoforceps usually fused, rarely only at basal half. Male last sternum deeply cleft to base but divided sections never elongate or twisted 14
- 8 Color pattern unique: pronotum red with two parallel black spots; elytra metallic green or blue; head with vertex and occiput red; frons and underside primarily black; legs usually primarily red beyond trochanter. Middle tibiae with dorsal (outer) surface somewhat compressed, with dense black setae *Muzimes*
- Color pattern never above. Middle tibiae with dorsal (outer) surface not as above 9
- 9 Mesosternum anteriorly with a modified, smooth, sometimes elevated, glabrous area or "scutum". Elytra orange- red with black spots or bands; body never metallic in color.....

		<i>Mylabris</i>
- Mesosternum inmodified, its surface homogeneous. Elytral color variable, metallic or not.....	10	
10 Ventral margin of dorsal blade of claws with a single row of minute, poorly defined, teeth or crenulae.....	11	
- Ventral margin of dorsal blade of claws with two rows of distinctive teeth	12	
11 Pronotum with sides relatively straight or evenly arcuate, never angulate. Antennae submoniliform, with at least segment IX as wide as long, or slightly wider than long. Male foretarsal segments unmodified.....		<i>Eolydus</i>
- Pronotum more or less subhexagonal with sides angulate laterally. Antennae submoniliform, with segments IX and X distinctly longer than wide. Male foretarsal segments elongate.....		<i>Lytta</i>
12 Last segment of maxillary palpi distinctly narrowed apically. Male head strongly impressed behind eye. Antennal segments IV-X transverse and symmetrical; antennae short, usually not attaining base of pronotum. Claws with relatively short teeth. Middle tarsi with segment I always enlarged in male. Color never metallic		<i>Oenas</i>
- Last segment of maxillary palpi not distinctly narrowed apically. Male head not impressed behind eye. Antennal segments IV – X more elongate or if transverse then at least slightly asymmetrical; antennae usually longer and attaining base of pronotum. Claws with relatively large teeth. Middle tarsi with segment I enlarged in males or not. Color metallic or not.....	13	
13 Pronotum longer than wide or, less commonly, as wide as long. Antennal segments VI - X as wide or wider than long with acentric sockets (segments appearing at least slightly asymmetrical); segment III usually noticeably longer than IV. Color never metallic		<i>Lydus</i>
- Pronotum wider than long. Antennal segments VI – X more elongate. V – VI (often V - X) usually longer than wide with sockets centrally placed (segments appearing symmetrical); segment III subequal in length to IV or only lightly longer. Color metallic or not.....		<i>Alosimus</i>
14 Maxillary palpi with last segment widening to apex, subtriangular in shape. Claws with a single row of teeth or ventral margin of dorsal blade. Male gonoforceps not fused at apical half.....		<i>Stenodera</i>
- Maxillary palpi with last segment not widening to apex. Claws with two rows of teeth on ventral margin of dorsal blade. Male gonoforceps completely fused.....	15	
15 Eyes very large, at least attaining medial margin of maxillae on undersides of head		
- Eyes smaller, at most attaining lateral margin of maxillae on underside of head	16	
16 Maxillary galeae elongate, forming a sucking tube which usually is longer than the maxillary palpi.....		<i>Nemognatha, Zonitodema</i>
- Maxillary galeae only slightly elongate, not longer than maxillary palpi, not forming a sucking tube.....	17	
17 Outer hind tibial spur much longer, more robust and wider apically than inner spur		<i>Euzonitis</i>
- Outer hind tibial spur about as long as inner spur, variable in width	18	
18 Pronotum wider than longer or dimensions variable		<i>Zonitis</i>
- Pronotum distinctly longer than wide	19	
19 Wingless with elytra abbreviate. Elytra overlapping at base and unicolor.....		<i>Meloe</i>
- Winged with elytra well developed	20	
20 Labrum elongate and longitudinally furrowed or carinate. Antennal sockets distant from eyes, usually placed below or frontal surface; antennae, foretibiae and often maxillae strongly and bizarrely modified in male; antenna more or less claviform in female	21	

- Labrum not longitudinally furrowed or carinate. Antennae socket closer to eyes placed above frontal suture; male antennae, foretibiae and maxillae never similarly modified; antennae variable in female	24
21 Antennae eighth - nine segmented.....	22
- Antennae eleven segmented.....	23
22 Antennae eighth – segmented.....	<i>Rhampholyssa</i>
- Antennae nine- segmented.....	<i>Cerocoma</i>
23 Head (at least in part), pronotum and abdomen yellow- orange	<i>Anisarthorcer</i>
- Head, pronotum and abdomen either black or metallic, never yellow- orange	<i>Diaphorocera</i>
24 Claws with ventral blade fringed with micropubescence.....	<i>Lyttonyx</i>
- Claws with ventral blade not fringed with micropubescence.....	25
25 Claws with ventral blade fused to, and not attaining apex of, dorsal blade (claws appearing toothed)	<i>Clalydus</i>
- Claws with ventral blade separated from dorsal blade, both of similar length (ventral blade rarely shorter, claws not appearing toothed)	26
26 Antennae six - eleven segmented, with segments either slightly to distinctly widened to apex, or, less commonly, with apical one or two segments abruptly narrowed. Mesosternum with a distinctly modified anterior "scutum" or varying size or at least with a smooth, glabrous anterior area whose surface is distinct from that of the remaining area. Elytra yellow to orange- red with black or metallic maculae or transverse fasciate rarely unicolors.....	27
- Antennae eleven- segmented, neither with segment widened to apex nor with apical one or two segments abruptly narrowed; if antennae do widen slightly to apex the elytra lack dark- colored maculae or transverse fasciate. Mesosternum uniform, without different tailed anterior area. Elytra variable but rarely patterned as above	31
27 Antennae eleven- segmented, progressively widened only to the segment VIII, X-XI (often XI as well) distinctly narrowed than preceding segments.....	28
- Antennae seven - eleven segmented, progressively widened from segment VI to apex ...	29
28 Antennal segment III subequal in length to I; segment IV- VII subtriangular and with elongate setae apicoventrally. Mesepisterna without a furrowed anterior border. Relatively large in size (20 - 40 mm).....	<i>Lydoceras</i>
- Antennal segment III shorter than I, segment IV – VII not all subtriangular and without elongate setae apicoventrally. Mesepisterna with a relatively wide and distinctly furrowed anterior border. Moderate in sizes (12-22 mm).	<i>Hycleus</i>
29 Antennae ten- segmented (X – XI fused), IX and X subcylindrical in cross- section. Mesosternum without a "scutum"	<i>Semenovilia</i>
- Antennae seven - eleven segmented, variously shaped but never cylindrical apically. Mesosternal "scutum" present or not	30
30 Hind tibial spurs dissimilar, outer spur spatulate, about twice the width of sticklike inner spur. Mesosternum without a distinct "scutum"; anterior mesosternal suture obsolescent	<i>Croscherichia</i>
- Hind tibial spur similar, both more or less stick- like or spiniform, if rarely dissimilar as above then mesosternum with a "scutum". Mesosternum, with anterior suture distinct	<i>Actenodia</i>
31 Labrum subacuminate apically, distinctly widest at middle. Mandibles relatively straight, not noticeably curved to apex. Occiput distinctly furrowed longitudinally.....	<i>Syriolytta</i>
- Labrum normal, not narrowing apically. Mandibles distinctly curved at least at apical half. Occiput without a distinct longitudinal furrow	32

- 32 Male uniquely modified. Lateral lobes of last abdominal sternum with a long tuft of black modified setae which are as long as or longer than the penultimate sternum. Hind trochanters excavated or with a distinct protuberance. Middle tibiae strongly modified apically in most species. Mesasternum usually with two pubescent tubercles*Teratolytta*
- Males without above modifications. Both sexes with pubescence of varying length.....*Eolydus*

Family *Meloidae* GYLLENHAL, 1810

Subfamily *Meloinae* GYLLENHAL, 1810

Tribe *Cerocomini* LEACH, 1815

Genus *Anisarthrocera* SEMENOV, 1895

Type species: *Rhampholyssa batesi* MARSEUL, 1872; by monotypy. [2 species].

Comments: The genus *Anisarthrocera* was described by SEMENOV (1895) to include *Rhampholyssa batesi* MARSEUL, 1872, easily distinguishable from other *Rhampholyssa* species by the number of antennomeres (11 in *Anisarthrocera*, 8 in *Rhampholyssa*) (TURCO & BOLOGNA 2008).

Anisarthrocera batesi batesi (MARSEUL, 1872)

Rhampholyssa batesi MARSEUL, 1872: 416. *Anisarthrocera batesi*: SEMENOV, 1895: 517; KASZAB, 1951: 273; KASZAB, 1968: 749; DVOŘÁK, 1989: 17. *Anisarthrocera batesi batesi*: KASZAB, 1968: 750. *Anisarthrocera batesi villiersi*: KASZAB, 1968: 750.

Distribution in Iran: Bushehr (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Fars (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Hormozgan (DVOŘÁK 1996; MODARRES AWAL 1997), Kerman, Khuzestan, Sistan & Baluchestan (TURCO & BOLOGNA 2008), Iran (no locality cited) (DVOŘÁK 1989; TURCO & BOLOGNA 2007; BOLOGNA 2008).

General distribution: Iran, Iraq, Saudi Arabia.

Anisarthrocera batesi villiersi KASZAB, 1968

Anisarthrocera batesi villiersi KASZAB, 1968b: 750.

Distribution in Iran: Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Endemic to Iran.

Genus *Cerocoma* GEOFFROY, 1762

Meloides PILLER & MITTERPACHER, 1783; type species: *Meloides adamovichina* PILLER & MITTERPACHER, 1783, by monotypy. *Metacerocoma* KASZAB, 1951 (as subgenus; currently valid); type species: *Cerocoma schreberi* FABRICIUS, 1781, by original designation. *Mesocerocoma* KASZAB, 1951 (as subgenus; currently valid); type species: *Cerocoma scovitzii* FALDERMANN, 1837, by original designation. *Cerocomina* KASZAB, 1951 (as subgenus; currently valid); type species: *Cerocoma vahli* FABRICIUS, 1783, by original designation.

Type species: *Meloe schaefferi* LINNÉ, 1758 (type species, by subsequent monotypy by FABRICIUS, 1775: 262). [26 species]

Comments: FABRICIUS (1775) was considered that author of *Cercoma* by SELANDER (1991), however this was prior to publication of the International Commission Zoological Nomenclature's Opinion 1754 (ICZN) which conserved *Cerocoma* GEOFFROY as an available name.

Subgenus *Cerocoma* GEOFFROY, 1762

Meloides PILLER & MITTERPACHER, 1783: 39; type species: *Meloides adamovichiana* PILLER & MITTERPACHER, 1783.

Cerocoma GEOFFROY, 1762: 357; KASZAB, 1951: 255; DVOŘÁK, 1990: 1; BOLOGNA, 1991: 144.

***Cerocoma (Cerocoma) bernhaueri* PARDO ALCAIDE, 1977**

Cerocoma bernhaueri PARDO ALCAIDE, 1977: 64.

Distribution in Iran: Qazvin (56 km NW Qazvin - Holotype) (PARDO ALCAIDE 1977).

General distribution: Azerbaijan, Iran, Israel-Palestine, Jordan, Lebanon, Turkey, Syria.

***Cerocoma (Cerocoma) dahli* KRAATZ, 1863**

Cerocoma dahli KRAATZ, 1863: 112; *Cerocoma (Cerocoma) dahli*, KASZAB, 1951: 265, 268, 272; *Cerocoma dahli* var. *nigrivestis* MUCHE, 1963: 13 (invalid name).

Distribution in Iran: Golestan, Khorasan, Zanjan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Armenia, Austria, Bulgaria, Georgia, Greece, Iran, Israel-Palestine, Jordan, Romania, Syria, Turkey. Bulgaria, Greece, Romania, Turkey, Georgia. Records from Armenia, Azerbaijan, Syria, Lebanon, Israel-Palestine, Jordan and Iran need confirmation and possibly some of them could be referred to *C. bernhaueri*. An old citation from Austria (BAUDI DI SELVE 1878) is probably erroneous (TURCO & BOLOGNA 2011).

***Cerocoma (Cerocoma) prochaskana* REITTER, 1896**

Cerocoma prochaskana REITTER, 1896: 267; *Cerocoma (Cerocoma) prochaskana* KASZAB, 1951: 264, 266, 272.

Distribution in Iran: Bushehr (SERRI 2015), Fars, Hormozgan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Iran, Iraq, Israel-Palestine, Jordan, Syria, Turkey.

***Cerocoma (Cerocoma) schaefferi* (LINNAEUS, 1758)**

Meloe schaefferi LINNAEUS, 1758: 420; *Cerocoma schaefferi* FABRICIUS, 1781: 331; *Cerocoma viridis* FOURCROY, 1785: 163; *Cerocoma schraderi* BAUDI DI SELVE, 1878: 1041-1042 (nec KRAATZ 1863); *Cerocoma schaefferi* var. *affinis* BAUDI DI SELVE, 1878: 358; *Cerocoma schaefferi* var. *obscuripes* REITTER, 1885: 14 (after Motscholsky); *Cerocoma schaefferi* var. *viridula* REITTER, 1885: 14; *Cerocoma schaefferi* var. *orensis* REITTER, 1913: 193; *Cerocoma (Cerocoma) schaefferi*, KASZAB, 1951: 264-265, 268, 272; *Cerocoma (Cerocoma) schaefferi orensis*, KASZAB, 1951: 264, 268, 272; *Cerocoma (Cerocoma) schaefferi viridula*, KASZAB, 1951: 265, 268, 272.

Distribution in Iran: Tehran (Mirzayans 1963; Modarres Awal 1997, 2012).

General distribution: Albania, Austria, Belgium, Byelorussia, Bosnia Herzegovina, Czech Republic, France, Germany, Greece, Hungary, Italy, Kazakhstan, Latvia, Macedonia, Montenegro, The Netherlands, Poland, Portugal, Romania, Russia (Central European Territory, South European Territory), Serbia, Slovakia, Spain, Switzerland, Turkey, Ukraine.

***Cerocoma (Cerocoma) simplicicornis* REITTER, 1913**

Cerocoma dahli var. *simplicicornis* REITTER, 1913: 193; *Cerocoma dahli* ab. *aeneipes* REITTER, 1913: 193; *Cerocoma dahli* ab. *aeneiceps*, MAŘAN, 1944: 86 (*lapsus calami*); *Cerocoma (Cerocoma) simplicicornis*, KASZAB, 1951: 265, 268, 272.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, "Caucasus", Azerbaijan, Iran, Turkey.

Subgenus *Meloides* PILLER & MITTERPACHER, 1783

Meloides PILLER & MITTERPACHER, 1783: 39. *Cerocoma (Meloides)*, DVOŘÁK, 1990: 2.

***Cerocoma (Meloides) albopilosa* DVOŘÁK, 1993**

Cerocoma albopilosa DVOŘÁK, 1993: 7.

Distribution in Iran: Sistan & Baluchestan (DVOŘÁK 1993; BATELKA & HÁJEK 2015).

General distribution: Iran, Turkey.

***Cerocoma (Meloides) azurea* REITTER, 1913**

Cerocoma azurea REITTER, 1913: 192; *Cerocoma (Cerocoma) syriaca* var. *azurea* KASZAB, 1951: 263, 267, 271; *Cerocoma syriaca* ab. *humilis* MUCHE, 1963: 12 (invalid name); *Cerocoma syriaca coeruleotincta* MUCHE, 1963: 13; *Cerocoma (Meloides) azurea* DVOŘÁK, 1990: 4.

Distribution in Iran: Iran (no locality cited) (MUCHE 1963 as *Cerocoma syriaca* ab. *humilis*; DVOŘÁK 1989).

General distribution: Cyprus, Syria, Lebanon, Israel-Palestine, Jordan, Iran.

***Cerocoma (Meloides) barthelemyi* BAUDI DI SELVE, 1878**

Cerocoma barthelemyi BAUDI DI SELVE, 1878: 358; *Cerocoma syriaca* ABEILLE DE PERRIN, 1880: 235; *Cerocoma (Cerocoma) barthelemii*, KASZAB, 1951: 262, 267, 271; *Cerocoma (Cerocoma) barthelemii* var. *haifensis* KASZAB, 1951: 262, 268; *Cerocoma (Meloides) barthelemii*, DVOŘÁK, 1990: 2, 9.

Distribution in Iran: Golestan (MIRZAYANS 1970; MODARRES AWAL 1997; KHORMALI et al. 2004 as *Cerocoma (Cerocoma) syriaca* ABEILLE DE PERRIN, 1880), Mazandaran (PARDO ALCAIDE 1977), Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997 as *C. (Cerocoma) syriaca*), Tehran (PARDO ALCAIDE 1977; TURCO & BOLOGNA 2011).

General distribution: Albania, Armenia, "Caucasus", Iran, Israel-Palestine, Syria, Turkey. Records from Greece need confirmation (TURCO & BOLOGNA 2011).

***Cerocoma (Meloides) bodemeyeri* REITTER, 1909**

Cerocoma bodemeyeri REITTER, 1909: 103; *Cerocoma gloriosa bodemeyeri*, MAŘAN, 1944: 89; *Cerocoma (Cerocoma) kunzei* ab. *bodemeyeri*, KASZAB, 1951: 264, 266, 272; *Cerocoma (Meloides) bodemeyeri*, DVOŘÁK, 1990: 7.

Distribution in Iran: Kerman (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997 as *Cerocoma kuntzei* var. *bodemayeri* REITTER), Khorasan (FEKRAT & MODARESS AWAL 2012), Lorestan (TURCO & BOLOGNA 2011), Markazi (MOSLEMI et al. 2015), Mazandaran, Qazvin (KASZAB 1968b as *C. kuntzei* var. *bodemeyeri*), Zanjan (MIRZAYANS 1970; MODARRES AWAL 1997 as *C. kuntzei* var. *bodemayeri* REITTER).

General distribution: Iran, Iraq.

***Cerocoma (Meloides) confusa* TURCO & BOLOGNA, 2011**

Cerocoma muehlfeldi, REITTER, 1913: 192. *Cerocoma (Cerocoma) syriaca*, KASZAB, 1951: 263, 267. *Cerocoma (Meloides) syriaca*, DVOŘÁK, 1990: 10.

Distribution in Iran: Alborz (DVOŘÁK 1990 as *C. syriaca*), Ardabil, Guilan, Lorestan, Khorasan (TURCO & BOLOGNA 2011), Golestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. syriaca*), Mazandaran (MIRZAYANS 1970; PARDO ALCAIDE 1977; MODARRES AWAL 1997 as *C. syriaca*), Iran (no locality cited) (DVOŘÁK 1989 as *C. syriaca*).

General distribution: Armenia, Azerbaijan, Bulgaria, Georgia, Greece, Iran, Israel-Palestine, Jordan, Lebanon, S Russia, Syria, Turkey (TURCO & BOLOGNA 2011).

***Cerocoma (Meloides) kunzei* FRIVALDSZKY, 1835**

Cerocoma kunzei FRIVALDSKY, 1835: 265; *Cerocoma muehlfeldi* var. *patelligera* BAUDI DI SELVE, 1878: 358; *Cerocoma muehlfeldi* var. *kunzei*, REITTER, 1885: 13; *Cerocoma gloriosa* ab. *kaszabi* MAŘAN, 1944: 96; *Cerocoma (Cerocoma) kunzei*, KASZAB, 1951: 264, 266, 272; *Cerocoma kunzei* ab. *violacea* KASZAB, 1951: 264, 269; *Cerocoma kunzeni iranica* MUCHE, 1963: 11; *Cerocoma kunzeni palaestinensis* MUCHE, 1963: 11; *Cerocoma (Meloides) kunzei*, DVOŘÁK, 1990: 7.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Albania, Armenia, Bosnia Herzegovina, Bulgaria, "Caucasus", Croatia, Greece, Iran, Israel-Palestine, Jordan, Macedonia, Montenegro, Romania, Serbia, Syria, Turkey.

***Cerocoma (Meloides) marginiventris* REITTER, 1889**

Cerocoma muehlfeldi var. *marginiventris* REITTER, 1889: 34; *Cerocoma muehlfeldi* var. *pictiventris* REITTER, 1890: 174; *Cerocoma muehlfeldi* var. *gloriosa*, REITTER, 1913: 191 (nec MULSANT, 1857); *Cerocoma gloriosa* ab. *marginiventris*, MAŘAN, 1944: 89; *Cerocoma (Cerocoma) kunzei* ab. *marginiventris*, KASZAB, 1951: 264, 266, 272.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Turkey.

***Cerocoma (Meloides) muehlfeldi* GYLLENHAL, 1817**

Cerocoma muehlfeldi GYLLENHAL, 1817: 13; *Cerocoma micans* MÉNÉTRIES, 1832: 206;

Cerocoma faldermanni LAPORTE DE CASTELNAU, 1840: 267; *Cerocoma gonocera* MOTSCHOUISKY, 1872: 49; *Cerocoma kunzei*, MAŘAN, 1944: 90 (in part) (nec FRIVALDSKY, 1835); *Cerocoma (Cerocoma) muehlfeldi*, KASZAB, 1951: 263, 267, 272; *Cerocoma (Meloides) muehlfeldi* DVOŘÁK, 1990: 10.

Distribution in Iran: Mazandaran (KASZAB 1968b).

General distribution: Albania, Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Greece, Hungary, Iran, Iraq, Israel-Palestine, Jordan, Macedonia, Montenegro, Romania, Serbia, Slovakia, Syria, Turkey, Ukraine.

***Cerocoma (Meloides) rapillyi* PARDO ALCAIDE, 1977**

Cerocoma rapillyi PARDO ALCAIDE, 1977: 61; *Cerocoma (Meloides) rapillyi* DVOŘÁK, 1990: 9.

Distribution in Iran: Isfahan (Maghsud Beyk, Shahreza - Holotype) (PARDO ALCAIDE 1977), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Endemic to Iran.

***Cerocoma (Meloides) turcica* PARDO ALCAIDE, 1977**

Cerocoma adamovitchiana ssp. *turcica* PARDO ALCAIDE, 1977: 60; *Cerocoma (Meloides) turcica*, DVOŘÁK, 1990: 3.

Distribution in Iran: Ardabil (SERRI 2004).

General distribution: Turkey.

Subgenus *Mesocerocoma* KASZAB, 1951

Mesocerocoma KASZAB, 1951: 259; BOLOGNA, 1991: 145.

***Cerocoma (Mesocerocoma) latreillei latreillei* BAUDI DI SELVE, 1878**

Cerocoma latreillei BAUDI DI SELVE, 1878: 359; *Cerocoma (Mesocerocoma) latreillei*, KASZAB, 1951: 261, 265, 271.

Distribution in Iran: Markazi (MOSLEMI et al. 2015).

General distribution: Iran, Iraq.

***Cerocoma (Mesocerocoma) latreillei schah* KASZAB, 1968**

Cerocoma (Mesocerocoma) latreillei schah KASZAB, 1968: 750; *Cerocoma latreillei sterbai* MAŘAN, 1944: 95; *Cerocoma sterbai* MAŘAN, 1944: 95; *Cerocoma (Mesocerocoma) sterbai*, KASZAB, 1951: 261, 265, 271.

Distribution in Iran: "Perse" (SUMAKOV 1915), Alborz (Karaj - Holotype) (MAŘAN 1944 as *Cerocoma sterbai* MAŘAN, 1944; BATELKA & HÁJEK 2015), Fars (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Hormozgan, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (BOLOGNA 2008).

New materials: Isfahan (H. Ghahari collection).

General distribution: Iran, Pakistan.

***Cerocoma (Mesocerocoma) scovitzi intermedia* MAŘAN, 1944**

Cerocoma scovitzi intermedia MAŘAN, 1944: 84, 94; *Cerocoma scovitzi jureceki* MAŘAN, 1944:

84, 94; *Cerocoma (Mesocerocoma) scovitzi intermedia*, KASZAB, 1951: 261, 266, 271; *Cerocoma (Mesocerocoma) scovitzi jureceki*, KASZAB, 1951: 261, 266, 271; *Cerocoma (Mesocerocoma) scovitzi marani* KASZAB, 1951: 262, 266, 271.

Distribution in Iran: Hormozgan (Bandar-Abbas - Holotype) (DVOŘÁK 1993 as *Cerocoma (Mesocerocoma) scovitzi mirabilis* DVOŘÁK, 1993), Fars, Khorasan, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. scovitzi* form *mirabilis*), Hormozgan (KASZAB 1968b as *C. scovitzi* ab. *mirabilis*).

General distribution: Egypt, Iran, Iraq, Israel-Palestine, Jordan, Saudi Arabia, Syria, Turkey.

Comments: BATELKA & HÁJEK (2015) believe that *C. (Mesocerocoma) scovitzi mirabilis* is synonym of *Cerocoma (Mesocerocoma) scovitzi scovitzi* Faldermann, 1837 while we consider it as the synonym of *C. (Mesocerocoma) scovitzi intermedia*.

***Cerocoma (Mesocerocoma) scovitzi scovitzi* FALDERMANN, 1837**

Cerocoma scovitzi FALDERMANN, 1837: 117; *Cerocoma scovitzi* var. *lateralis* REITTER, 1890: 174; *Cerocoma scovitzi* var. *rufiventris* REITTER, 1890: 173; *Cerocoma scovitzi* ab. *obscuriventris* MAŘAN, 1944: 83, 93; *Cerocoma scovitzi* ab. *maculicollis* MAŘAN, 1944: 83, 93; *Cerocoma scovitzi* ab. *mirabilis* KASZAB, 1968: 751 (invalid name); *Cerocoma (Mesocerocoma) scovitzi scovitzi*, KASZAB, 1951: 261, 266, 271; *Cerocoma scovitzi mirabilis* DVOŘÁK, 1993: 7.

Distribution in Iran: Bushehr, Fars, Khuzestan, Kuhgiluyeh & Boyerahmad (Serri 2015), East Azarbaijan, Zanjan (Mirzayans 1970; Modarres Awal 1997, 2012).

General distribution: Armenia, "Caucasus", Iran, "Transcaucasia".

Comments: *Cerocoma (Mesocerocoma) scovitzi* form *abscuriventris* Marseul (from East Azarbaijan, Golestan, Khorasan) and *Cerocoma (Mesocerocoma) scovitzi* form *maculicollis* Marseul (from Sistan & Baluchestan) were reported from Iran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Subgenus *Metacerocoma* KASZAB, 1951

Metacerocoma KASZAB, 1951: 259; BOLOGNA, 1991: 145.

***Cerocoma (Metacerocoma) ephesica* REITTER, 1885**

Cerocoma ephesica REITTER, 1885: 12; *Cerocoma (Metacerocoma) ephesica*, KASZAB, 1951: 261, 265, 270.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Bulgaria, Greece, Iran, Macedonia, Turkey.

***Cerocoma (Metacerocoma) festiva* FALDERMANN, 1837**

Cerocoma festiva FALDERMANN, 1837: 118; *Cerocoma (Metacerocoma) festiva*, KASZAB, 1951: 260, 265, 270.

Distribution in Iran: Bushehr, Khuzestan, Kuhgiluyeh & Boyerahmad (MIRZAYANS 1970; MODARRES AWAL 1997; SERRI 2015), East Azarbaijan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997), Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997), Markazi (MOSLEMI et al. 2015).

New materials: Isfahan (H. Ghahari collection).

General distribution: Armenia, Azerbaijan, Iran, Kazakhstan, Turkey, Turkmenistan.

***Cerocoma (Metacerocoma) schreberi* FABRICIUS, 1781**

Cerocoma schreberi FABRICIUS, 1781: 331; *Cerocoma (Metacerocoma) schreberi*, KASZAB, 1951: 261, 265, 271.

Distribution in Iran: Fars (MODARRES AWAL 1997, 2012).

General distribution: Albania, Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, China, Croatia, France, Greece, Hungary, Italy, Kazakhstan, Macedonia, Mongolia, Montenegro, Poland, Portugal, Russia (Central European Territory, South European Territory), Serbia, Slovakia, Spain, Turkey, Tajikistan, Ukraine, Uzbekistan.

Genus *Diaphorocera* HEYDEN, 1863

Type species: *Diaphorocera hemprichi* HEYDEN, 1863: 126, by monotypy. [8 species]

Diaphorocera hemprichi HEYDEN, 1863.

***Diaphorocera hemprichi saudita* KASZAB, 1983**

Diaphorocera hemprichi saudita KASZAB, 1983: 179.

Diaphorocera hemprichi saudita: Saudi Arabia, Eastern provinces, Udhailiyah Camp (KASZAB 1983).

Distribution in Iran: Hormozgan (DVOŘÁK 1996; TURCO & BOLOGNA 2007).

General distribution: Arab Emirates, Iran, Oman, Saudi Arabia.

Genus *Rhampholyssa* KRAATZ, 1863

Type species: *Cerocoma steveni* FISCHER VON WALDHEIM, 1824, by monotypy. [2 species]

***Rhampholyssa stevenii* (FISCHER VON WALDHEIM, 1824)**

Cerocoma adusta Steven in litteris (see SEMENOW, 1895: 517); *Cerocoma steveni* FISCHER VON WALDHEIM, 1824: 227; *Rhampholyssa komarowi* REITTER, 1889: 119; *Rhampholyssa stevenii*, REITTER, 1889: 119; *Rhampholyssa stevenii* var. *komarowi*, SEMENOW, 1895: 519; KASZAB, 1951: 257, 270; *Rhampholyssa stevenii* var. *intermedia* SEMENOW, 1895: 518; KASZAB, 1951: 257, 270; *Rhampholyssa stevenii* var. *pallida* SEMENOW, 1895: 519; KASZAB, 1951: 257, 270; *Rhampholyssa stevenii* var. *varentzowi* SEMENOW, 1895: 518-519; KASZAB, 1951: 257, 270; *Rhampholyssa stevenii* var. *plagicollis* REITTER, 1909: 102-103; KASZAB, 1951: 257, 270.

Distribution in Iran: Isfahan (DVOŘÁK 1996; TURCO & BOLOGNA 2008).

General distribution: Iran, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan.

Tribe *Epicautini* DENIER, 1935

Genus *Epicauta* DEJEAN, 1834

Subgenus *Epicauta* DEJEAN, 1834

Causima DEJEAN, 1834; type species: *Lytta vidua* KLUG, 1825, by monotypy. *Henous* HALDEMAN, 1852; type species: *Hoenus techanus* HALDEMAN (= *Meloe conferta* SAY, 1824) by monotypy.

Isopentra MULSANT & RAY, 1858; type species: *Lytta megaloccephala* GEBLER, 1817, by subsequent designation (WERNER, 1945). *Apterospasta* LECONTE, 1862; type species: *Lytta segmenta* SAY, 1823, by subsequent designation (WELLMAN, 1910). *Macrobasis* LECONTE, 1862; type species: *Lytta albida* SAY, 1824, by subsequent designation (WELLMAN, 1910); currently as subgenus (PINTO, 1991). *Pleuropompha* LECONTE, 1862; type species: *Lytta costata* LECONTE, 1854, by monotypy. *Nomaspis* LECONTE, 1866; type species: *Meloe parvus* HADEMAN, 1854) by monotypy. *Gnathospasta* HORN, 1875; type species: *Gnathospasta mimetica* HORN, by monotypy. *Anomalonyx* DENIER, 1935; type species: *Lytta fumosa* GERMAR, 1824, by original designation; [nec *Anomalonyx* WEISE (1903) (Chrysomeloidae)]; replaced by *Anomalonychus* SAYLOR. *Anomalonychus* SAYLOR, 1940; new name for *Anomalonyx* DENIER, 1935. *Maculicauta* DILLON, 1952; type species: *Epicauta stuarti* LECONTE, 1868 by original designation.

Type species: *Meloe erythrocephalus* PALLAS, 1776, by subsequent designation (WERNER 1945). [Ca.381 species]

***Epicauta (Epicauta) atkinsoni* (KRAATZ, 1880)**

Lytta atkinsoni KRAATZ, 1880: 16; *Lytta niveolineata* HAAG-RUTENBERG, 1880: 85.

Distribution in Iran: Hormozgan (Bandar-Abbas), Kerman (Jiroft) (KASZAB 1968b).

General distribution: India (Himalaya, westliches Vorder-Indien), Iran (KASZAB 1968b; BOLOGNA 2008).

***Epicauta (Epicauta) erythrocephala* (PALLAS, 1776)**

Meloe erythrocephala PALLAS, 1776: 46; *Meloe sonchi* GMELIN, 1790: 1896; *Meloe lineata* THUNBERG, 1791: 228; *Meloe albivittis* PALLAS, 1796: 101; *Epicauta erythrocephala*, MULSANT & REY, 1858: 177; *Epicauta latelineolata* MULSANT & REY, 1858: 175; *Epicauta erythrocephala*, KASZAB, 1952: 579, 598.

Distribution in Iran: Alborz (FARAHBAKHS 1961; MIRZAYANS 1970; MODARRES AWAL 1997), Khorasan, Tehran (FARAHBAKHS 1961; KASZAB 1968b (as *Epicauta erythrocephala* var. *latelineolata* MULSANT & REY, 1858); Mirzayans 1970; MODARRES AWAL 1997, 2012), Khuzestan (SERRI 2015).

General distribution: Afghanistan, Albania, Armenia, Bulgaria, China, Greece, Iran, Kazakhstan, Romania, Slovakia, Russia (South European Territory, West Siberia), Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Plant association in Iran: *Cucumis sativus* (Cucurbitaceae), *Medicago sativa* (Fabaceae), *Cucumis melo* (Cucurbitaceae), *Solanum tuberosum* (Solanaceae), *Beta vulgaris* (Amaranthaceae), *Citrullus lanatus* (Cucurbitaceae) (MODARRES AWAL 1997, 2012).

Comments: *Epicauta (Epicauta) erythrocephala latelineolata* Mulsant & Rey, 1858 was reported from Alborz, Khorasan and Tehran (FARAHBAKHS 1961; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Epicauta (Epicauta) hirtipes* (WATERHOUSE, 1871)**

Cantharis hirtipes WATERHOUSE, 1871: 406; *Lytta hirtipes*, HAAG-RUTENBERG, 1880: 82; *Epicauta hirtipes*, BORCHMANN, 1917: 76.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: India, Iran, Kazakhstan, Nepal, Pakistan.

***Epicauta (Epicauta) sharpi* MARSEUL, 1875**

Epicauta sharpi MARSEUL, 1875: xxvii; *Cantharis suavis* HAAG-RUTENBERG, 1880: 83; *Epicauta suavis*, GAHAN, 1896: 450; *Epicauta sharpi*, KASZAB, 1952: 584, 595.

Distribution in Iran: Hormozgan (NIKBAKHTZADEH & EBRAHIMI 2008), Southern Iran (BOLOGNA et al. 2008a), Iran (no locality cited) (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012 as *Epicauta suavis* HAAG-RUTENBERG 1880; BOLOGNA & TURCO 2007; BOLOGNA 2008).

General distribution: Iran, Israel-Palestine, Jordan, Oman, Saudi Arabia, Yemen.

Plant association in Iran: *Cucumis sativus* (Cucurbitaceae), *Medicago sativa* (Fabaceae), *Cucumis melo* (Cucurbitaceae), *Solanum tuberosum* (Solanaceae), *Beta vulgaris* (Amaranthaceae), *Citrullus lanatus* (Cucurbitaceae) (MODARRES AWAL 1997).

***Epicauta (Epicauta) textilis* (HAAG-RUTENBERG, 1880)**

Lytta textilis HAAG-RUTENBERG, 1880: 82; *Epicauta textilis*, KASZAB, 1952: 581, 595.

Distribution in Iran: Fars, Kermanshah, Khorasan, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Kerman (MANDL 1964; KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khuzestan (KASZAB 1959; SERRI 2015), Kordestan (KASZAB 1968b), Sistan & Baluchestan (MANDL 1964; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (BOLOGNA et al. 2008a).

General distribution: Iran, Iraq, Saudi Arabia.

Tribe Lyttini SOLIER, 1851

Genus *Alosimus* MULSANT, 1857

Halosimus GEMMINGER & HAROLD, 1870.

Type species: *Meloe syriacus* LENNAEUS, 1858, by monotypy. [27 species]

Comments: *Alosimus* was treated as a subgenus of *Lydus* in the early literature (ESCHERICH 1896; MARAN 1942). Its current status dates from KASZAB (1951).

***Alosimus armeniacus* (FALDERMANN, 1837)**

Lytta armeniaca FALDERMANN, 1837: 135; *Lydus (Alosimus) armeniacus*, ESCHERICH, 1896: 215, 222-224; *Alosimus armeniacus*, KASZAB, 1951: 144, 149.

Distribution in Iran: Fars (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Kermanshah, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khuzestan (SERRI 2015), Markazi (FARAJI et al. 2012; MOSLEMI et al. 2015).

General distribution: Armenia, Azerbaijan, Bulgaria, Iran, Iraq, Jordan, Romania, Syria, Turkey.

***Alosimus chalybaeus* (TAUSCHER, 1812)**

Oenas chalybaea TAUSCHER, 1812: 135; *Lydus (Alosimus) chalybaeus*, ESCHERICH, 1896: 221, 224-225; *Halosimus chalybaeus*, APFELBECK, 1907: 32; *Alosimus chalybaeus*, KASZAB, 1951: 144, 150.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008)

General distribution: Armenia, Azerbaijan, Bulgaria, Greece, Iran, Iraq, Kazakhstan, Macedonia, Montenegro, Romania, Russia (Central European Territory, South European Territory), Serbia, Syria, Turkey, Ukraine.

***Alosimus gracilis* (ABEILLE DE PERRIN, 1880)**

Lydus gracilis ABEILLE DE PERRIN, 1880: 251; *Lydus (Alosimus) gracilis*, ESCHERICH, 1896: 212-213; *Alosimus gracilis*, KASZAB 1951: 141, 149.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008)

General distribution: Iraq, Israel-Palestine, Jordan, Syria, Turkey.

***Alosimus longicollis* ESCHERICH, 1896**

Alosimus longicollis ESCHERICH, 1896: 213.

Distribution in Iran: Hormozgan "Persia meridionalis" (ESCHERICH 1896 as *Lydus (Alosimus) longicollis*), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Endemic to Iran.

***Alosimus luteus* (WALTL, 1838)**

Lytta lutea WALTL, 1838: 467; *Lydus (Alosimus) luteus*, ESCHERICH, 1896: 226, 228; *Alosimus luteus*, KASZAB, 1951: 145, 150.

Distribution in Iran: Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Iran, Iraq, Israel-Palestine, Jordan, Syria, Turkey.

***Alosimus reitterianus* SEMENOV, 1900**

Lydus (Alosimus) reitterianus SEMENOV, 1900: 480; *Alosimus reitterianus*, KASZAB, 1951: 139, 148.

Distribution in Iran: East Azarbaijan (SERRI 2004).

General distribution: Armenia, Azerbaijan, Iran, Turkey.

***Alosimus smyrnensis* (MAŘAN, 1942)**

Lydus (Alosimus) smyrnensis MAŘAN, 1942: 91-92; *Alosimus smyrnensis*, KASZAB, 1951: 141, 149.

Distribution in Iran: Fars (MIRZAYANS 1970; MODARRES AWAL 1997; NIKBAKHTZADEH & EBRAHIMI 2008; ISLAMI & NIKHBAKHTZADEH 2009), Hamadan (NIKHBAKHTZADEH & TIRGARI 2002a, b), Hormozgan, Lorestan, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997), Isfahan (ISLAMI & NIKHBAKHTZADEH 2009), Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997), Khuzestan (KASZAB 1959 as *Musimus smyrnensis* (MAŘAN); SERRI 2015).

General distribution: Greece, Iran, Macedonia, Turkey.

***Alosimus syriacus austriacus* (SCHRANK, 1781)**

Distribution in Iran: Golestan (SAKENIN et al. 2018).

General distribution: Albania, Austria, Bulgaria, Croatia, Greece, Hungary, Italy, Kazakhstan, Latvia, Macedonia, Moldavia, Poland, Romania, Russia (Central European Territory, South European Territory), Slovakia, Switzerland, Turkey, Ukraine, former Yugoslavia.

***Alosimus syriacus rauterbergi* (REITTER, 1907)**

Halosimus syriacus rauterbergi REITTER, 1907: 485; *Alosimus syriacus albopilosus*, KASZAB, 1951: 140 (in part).

Distribution in Iran: East Azarbaijan (GHAHARI et al. 2012), Iran (no locality cited) (BOLOGNA 2009; GHONEIM 2013b, c).

General distribution: "This polytypic species is widely distributed from central Europe (Alsace, Western Switzerland) eastward to southern Russia and Ukraine, the Balkan Peninsula, Turkey, Iran, Levant, and the northern Arabian Peninsula. The subspecies *rautenbergi* is endemic to the coastal region of Egypt (also Fayum, CB), Sinai and Negev. Not surely known from Libya, but suspected to occur there." From BOLOGNA 2009: Meloidae of Libya.

***Alosimus syriacus syriacus* (LINNAEUS, 1758)**

Meloe syriacus LINNAEUS, 1758: 419; *Lytta ruficollis* HERBST, in Füssly, 1784: 179; *Cantharis syriaca* OLIVIER, 1795: Table 1, Fig. 5; *Oenas syriacus*, TAUSCHER, 1812: 153; *Lytta myagri* FISCHER, 1824: 228; *Alosimus syriacus*, MULSANT, 1857: 151; *Lydus (Alosimus) syriacus*, ESCHERICH, 1896: 219; *Lydus syriacus* var. *albopilosus* SAHLBERG, 1903: 29.

Distribution in Iran: Bushehr, Khuzestan (SERRI 2015), Fars (KASZAB 1968b; SERRI 2015), Kerman (MANDL 1964), Sistan & Baluchestan (MANDL 1964; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (BOLOGNA & TURCO 2007).

General distribution: Iran, Iraq, Israel-Palestine, Jordan, Lebanon, Saudi Arabia, Syria, Turkey.

Genus *Calydus* REITTER, 1896

Caloenas REITTER, 1889 [(nec *Caloenas* GRAY, 1840 (Aves))].

Type species: *Caloenas pulcher* REITTER, 1889, by monotypy as type species of its objective synonym *Caloenas* REITTER. [6 species]

Comments: *Clydus* originally was assigned to the Mylabrini and later to the Nearctic tribe Eupomphini (KASZAB 1959, 1960, 1969). Afterward, PINTO (1984) exclude the genus from Eupomphini for consider the prescence of toothed claws a feature convergent. SELANDER (1991) placed *Calydus* in the Milabrini. In the same year, Bologna again assigned *Calydus* as a lyttine in base on male genitalia and mesosternal structure. Finally, BOLOGNA & PINTO (2002) maintain the genus as Lyttini in spite of considerer its position within the tribe is not clear.

***Calydus ater* KASZAB, 1960**

Calydus ater KASZAB, 1960: 127.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Iraq, Turkey.

***Calydus ornaticollis* ESCHERICH, 1896**

Calydus ornaticollis ESCHERICH, 1896: 123.

D i s t r i b u t i o n i n I r a n : Markazi (FARAJI et al. 2012).

G e n e r a l d i s t r i b u t i o n : Iran, Syria.

***Calydus semenovi* (ESCHERICH, 1896)**

Caloenas semenovi ESCHERICH, 1896: 122; *Zonabris plagifrons* REITTER, 1913: 661, 662.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (BOLOGNA 2008).

G e n e r a l d i s t r i b u t i o n : Iran, Syria, Turkey.

Genus *Eolydus* DENIER, 1913

Type species: *Eolydus atrocoeruleus* DENIER, 1913 (= *Alosimus atripes* PIC, 1905) by monotypy.
[7 species]

***Eolydus atripes* (PIC, 1905)**

Alosimus atripes PIC, 1905: 130; *Eolydus atrocoeruleus* DENIER, 1913: 231.

D i s t r i b u t i o n i n I r a n : Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Ilam, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

G e n e r a l d i s t r i b u t i o n : Iran, Iraq.

***Eolydus conspicuus* (WATERHOUSE, 1889)**

Lytta conspicua WATERHOUSE, 1889: 29; *Lydus testaceicornis* PIC, 1910: 34; *Eolydus binotatithorax* KASZAB, 1956: 637.

D i s t r i b u t i o n i n I r a n : Bushehr (SERRI 2015), Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Isfahan (MOHAMMAD-MOMENI et al. 2016), Kerman (MANDL 1964; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khorasan (FEKRAT & MODARESS AWAL 2012), Sistan & Baluchestan (KASZAB 1957, 1968b (*Eolydus conspicuus* ab. *binotatithorax*); MANDL 1964; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

G e n e r a l d i s t r i b u t i o n : Afghanistan, Iran, Pakistan, "Turkestan".

C o m m e n t s : *Eolydus conspicuus* ab. *binotatithorax* was reported by KASZAB (1957) from Sistan & Baluchestan (NW Iranshahr).

Genus *Lydomorphus* FAIRMAIRE, 1882

Sagitta ESCHERICH, 1894 [nec *Sagitta* QUAOY & GAIMARD, 1827 (*Chaetognatha*)]; replaced by *Cylindrothorax* ESCHERICH. *Cylindrothorax* ESCHERICH, 1896; type species: *Lytta angusticollis* HAAG-RUTEMBERG, 1880, by subsequent designation (WELLMAN 1910) as type species of *Sagitta* ESCHERICH; new name for *Sagitta* ESCHERICH. *Mimovesperus* PIC, 1923; type species: *Mimovesperus pilosus* PIC, 1923 (= *Lytta verrucicollis* KARSCH, 1881), by monotypy. *Pardolydus* BOLOGNA, 1992 (as subgenus; currently valid); type species: *Lytta dusaulti* DUFOUR, 1821, by original designation. *Somalolydus* BOLOGNA, 1992 (as subgenus; currently valid); type species: *Cantharis bifoveiceps* FAIRMAIRE, 1897, by original designation.

Type species: *Lydomorphus cinnamomeus* FAIRMAIRE, 1882 (not *cinnamomeus* as indicated by BOLOGNA & ALOISI 1992), by original designation (BOLOGNA & ALOISI 1992). [74 species]

C o m m e n t s : SELANDER (1991) place this genus in Meloini. More recently, PINTO & BOLOGNA (2002) place this genus in the lyttini tribe. Despite the extensive classification of *Lydomorphus*, it is requires a complete revision. The monophyly of the genus and several of the species groups are questionable, and certain additional groups require recognition (BOLOGNA 1990; BOLOGNA & ALOISI 1992; BOLOGNA & PINTO 2002).

Subgenus *Lydomorphus* FAIRMAIRE, 1882

***Lydomorphus (Lydomorphus) angusticollis suturellus* (HAAG-RUTENBERG, 1880)**

Lytta angusticollis suturellus HAAG-RUTENBERG, 1880: 63; *Lytta suturella*, GAHAN, 1896: 450; *Cylindrothorax angusticollis suturellus*, KASZAB, 1955: 241.

D i s t r i b u t i o n i n I r a n : Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Cylindrothorax angusticollis* ssp. *suturellus* (HAAG-RUTENBERG, 1880)), Kerman, Sistan & Baluchestan (KASZAB 1959, 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. angusticollis*), Khorasan (FEKRAT & MODARESS AWAL 2012), Iran (no locality cited) (BOLOGNA & TURCO 2007).

G e n e r a l d i s t r i b u t i o n : Arab Emirates, Iran, Oman, Pakistan, Saudi Arabia, Yemen.

***Lydomorphus (Lydomorphus) janczyki* KASZAB, 1959**

Lydomorphus janczyki KASZAB, 1959: 437.

D i s t r i b u t i o n i n I r a n : Bushehr, Kuhgiloyeh & Boyerahmad (SERRI 2015), Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Cylindrothorax junczyki* KASZAB, 1959), Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. junczyki*; SERRI 2015).

G e n e r a l d i s t r i b u t i o n : Iran, Iraq.

***Lydomorphus (Lydomorphus) tenuicollis* (PALLAS, 1798)**

Lydomorphus (Lydomorphus) tenuicollis PALLAS, 1798: 102; *Lytta ornatus* LAPORTE, 1840; *Cantharis ruficollis* K.G. OLIVIER, 1789

Cantharis ruficollis OLIVIER, 1790: 278; *Meloe tenuicollis* PALLAS, 1798: 102; *Lydomorphus tenuicollis*, PALLAS, 1798: 102.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (BOLOGNA & TURCO 2007; BOLOGNA 2008).

G e n e r a l d i s t r i b u t i o n : India, Iran, Pakistan, Saudi Arabia, Yemen (BOLOGNA & TURCO 2007; BOLOGNA 2008).

Genus *Lydus* DEJEAN, 1821

Type species: *Meloe algiricus* LINNAEUS, 1758, by subsequent designation. [15 species]

***Lydus praeustus* REDTENBACHER, 1850**

Lydus praeustus REDTENBACHER, 1850: 49.

D i s t r i b u t i o n i n I r a n : Fars, Khuzestan, Kuhgiloyeh & Boyerahmad

(SERRI 2015), Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Lydus praeustus stigmatifrons* MARSEUL, 1872), Khorasan, Tehran (MODARRES AWAL 1997).

General distribution: Iran, Iraq, Syria.

Plant association in Iran: *Beta vulgaris* (Amaranthaceae) (MODARRES AWAL 1997, 2012).

Comments: *Lydus praeustus* form *hauseri* MADÈR, 1931 was reported from Hormozgan, Isfahan, Kermanshah, Khorasan, Khuzestan, Lorestan, Markazi (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Fars and Sistan & Baluchestan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Lydus tarsalis* ABEILLE DE PERRIN, 1880**

Lydus tarsalis ABEILLE DE PERRIN, 1880: 247.

Distribution in Iran: Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khuzestan (KASZAB 1959 as *L. tarsalis* var. *cerastes*), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Cyprus, Iran, Israel-Palestine, Jordan, Lebanon, Syria, Turkey.

***Lydus tenuicollis tenuicollis* REITTER, 1905**

Lydus tenuicollis REITTER, 1905: 246.

Distribution in Iran: Fars (KASZAB 1968b), Kerman (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Kuhgiluyeh & Boyerahmad (SERRI 2015), Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (REITTER 1905).

General distribution: Endemic to Iran.

***Lydus tenuitarsis* ABEILLE DE PERRIN, 1880**

Lydus tenuitarsis ABEILLE DE PERRIN, 1880: 246, 247.

Distribution in Iran: East Azarbaijan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Kermanshah, Kordestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khuzestan, Kuhgiluyeh & Boyerahmad (SERRI 2015), Markazi (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; MOSLEMI et al. 2015).

New materials: Ardabil (H. Ghahari collection).

General distribution: "Caucasus", Egypt (Sinai), Iran, Israel-Palestine, Jordan, Lebanon, Syria, Turkey.

Comments: *Lydus tenuitarsis davatchii* Kaszab was recorded from Isfahan, Kordestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), and Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Lydus tenuitarsis davatchii* KASZAB, 1968**

Lydus tenuicollis davatchii KASZAB, 1968: 754.

Distribution in Iran: Kermanshah (KASZAB 1968b).

General distribution: Endemic to Iran.

***Lydus turcicus* KASZAB, 1952**

Lydus turcicus KASZAB, 1952: 97, 98-99.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Syria, Turkey.

Comments: *Lydus turcicus rufus* KASZAB, 1952 was reported from Guilan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Lydus unicolor* REITTER, 1887**

Lydus tenuitarsis var. *unicolor* REITTER, 1887: 525; *Lydus halbhuberi* ESCHERICH, 1896: 205-206, 210-211; *Lydus unicolor*, KASZAB, 1952: 96.

Distribution in Iran: "Persia" (ESCHERICH 1896 as *L. halbhuberi*), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Iran, Israel-Palestine, Jordan, Lebanon, Russia (South European Territory), Syria, Turkey, Turkmenistan.

Comments: *Lydus unicolor* form *halbhuberi* ESCHERICH, 1896 was reported from Fars and Isfahan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Genus *Lytta* FABRICIUS, 1775

Cantharis GEOVROY, 1762 (misapplication of *Cantharis* LINNAEUS, 1758); *Pomphopoea* LECONTE, 1862 (currently as subgenus); *Poreospasta* HORN, 1868 (currently as subgenus); *Adicolytta* SELANDER, 1960 (as subgenus; currently valid); *Indiolytta* SELANDER, 1960 (as subgenus; currently valid); *Paralytta* SELANDER, 1960 (as subgenus; currently valid); *Pseudolytta* SELANDER, 1960 (as subgenus; currently valid); *Mesolytta* KASZAB, 1962 (as subgenus; currently valid); *Asiolytta* KASZAB, 1962 (as subgenus; currently valid).

Type species: *Meloe vesicatoria* LINNÉ, 1758, by subsequent designation (WELLMAN, 1910). [109 species, ca.40 species for the Old World]

Comments: As discussed by PINTO & BOLOGNA (1999) generic limits of *Lytta* have yet to be satisfactory resolved. The genus historically has served as a depository for generalized meloine species and many of those originally assigned have now been transferred to other genera in various tribes. *Lytta* currently includes nine subgenera (SELANDER 1960; KASZAB 1962; BOLOGNA 1991; PINTO & BOLOGNA 2002).

Subgenus *Lytta* FABRICIUS, 1775

***Lytta (Lytta) menetriesi* FALDERMANN, 1832**

Lytta menetriesi FALDERMANN, 1832: 210.

Distribution in Iran: East Azarbaijan, Markazi, Tehran and other northern provinces (FARAHBAKHS 1961; MIRZAYANS 1970; MODARESS AWAL 1997, 2012), Khorasan (FEKRAT & MODARESS AWAL 2012).

General distribution: Armenia, Azerbaijan, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

Plant association in Iran: *Fraxinus* sp. (Oleaceae), *Ulmus* sp. (Ulmaceae), *Populus alba* (Salicaceae) (FARAHBAKHS 1961; MODARESS AWAL 1997, 2012).

Subgenus *Mesolytta* SELANDER, 1960

***Lytta (Mesolytta) coccinea* MÉNÉTRIÉS, 1849**

Lytta coccinea MÉNÉTRIÉS, 1849: 247; *Oenas coccineus* MÉNÉTRIÉS, 1849; *Mesolytta fuscicrus* BRANCSIK, 1899: 102; *Cantharis glabricollis* WATHERHOUSE, 1889: 129 (syn. KASZAB 1972: 273); *Cantharis minor* DOKHTOUROFF, 1889: 179.

Distribution in Iran: Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; FEKRAT & MODARESS AWAL 2012).

General distribution: Afghanistan, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

Genus *Lytonyx* MARSEUL, 1876

Type species: *Cantharis bilateralis* MARSEUL, 1876 (= *bicolor* WALKER, 1871) by monotypy. [Single species]

***Lytonyx bicolor* (WALKER, 1871)**

Epicauta bicolor WALKER, 1871: 17; *Cantharis bilateralis* MARSEUL, 1876: 35; *Cantharis myrmido* FAIRMARE, 1876: 93; *Lytonyx bilateralis*, PIC, 1912: 177; *Lytonyx belutschistanica* KASZAB, 1959: 2.

Distribution in Iran: Sistan & Baluchestan (Iranshahr) (KASZAB 1959, 1968b as *L. belutschistanica*), Iran (no locality cited) (BOLOGNA & TURCO 2007).

General distribution: Algeria, Egypt, Libya, Morocco, Tunisia, Arab Emirates, Iran, Israel-Palestine, Oman, Saudi Arabia, Yemen.

Genus *Muzimes* AKSENTJEV, 1988

Micromerus MULSANT & REY, 1858 [nec. *Micromerus* RAMBUR, 1842 (Neuroptera), and *Micromerus* GUILLEBEAU, 1892 (Coleoptera)] (DVORAK 1993).

Type species: *Lytta collaris* FABRICIUS, 1787, by monotypy as type species of its objective synonym *Micromerus* MULSANT & REY. [17 species]

***Muzimes caucasicus* (MAŘAN, 1940)**

Distribution in Iran: Razavi Khorasan (SAKENIN et al. 2018).

General distribution: Armenia, Azerbaijan, Turkey.

***Muzimes collaris* (FABRICIUS, 1787)**

Lytta collaris FABRICIUS 1787: 215; *Lydus collaris*, OERTZEN, 1886: 264; *Lydus (Micromerus) collaris*, ESCHERICH, 1896: 232-234; *Lydus (Alosimus) collaris*, KANTARDJĚVA, 1929: 45; *Micromerus collaris*, KASZAB, 1958: 8.

Distribution in Iran: Tehran and other northern provinces (FARAHBAKHSH 1961, MODARRES AWAL 1997, 2012 as *Halosimus* (= *Lydus*) *collaris* (FALDERMANN, 1832)).

General distribution: Bulgaria, Greece, Hungary, Kazakhstan, Macedonia, Moldavia, Russia (South European Territory), Turkey, Ukraine.

Plant association in Iran: *Solanum tuberosum* (Solanaceae) (MODARRES AWAL 1997, 2012).

Comments: The genus *Halosimus* GEMMINGER & HAROLD, 1870 is synonym with the genus *Alosimus* MULSANT, 1857 (BOLOGNA 2008).

***Muzimes iranicus* (MAŘAN, 1940)**

Lydus (Alosimus) iranicus MAŘAN, 1940: 86.

Distribution in Iran: Alborz (holotype - Khosrova / Persia) (MAŘAN 1940 as *L. (Alosimus) iranicus* MAŘAN, 1940; BATELKA & HÁJEK 2015), Chaharmahal & Bakhtiari (ISLAMI & NIKHBAKHTZADEH 2009), East Azarbaijan, Ilam, Khorasan, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Micromerus iranicus* MARSEUL), Hamadan (NIHBAKHTZADEH & TIRGARI 2002a, b; NIKHBAKHTZADEH & EBRAHIMI 2008).

General distribution: Endemic to Iran.

Comments: *Micromerus franicus* Marseul was reported from East Azarbaijan by MODARRES AWAL (1997). There isn't the species name "*franicus*" in the family Meloidae; so it is probably *M. iranicus* which was written erroneously.

***Muzimes luristanicus* (MAŘAN, 1940)**

Lydus (Alosimus) luristanicus MAŘAN, 1940: 83.

Distribution in Iran: Khuzestan (KASZAB 1959 as *Micromerus luristanicus* (MAŘAN)), Lorestan (MAŘAN 1940 as *L. (Alosimus) luristanicus*).

General distribution: Endemic to Iran.

Genus *Oenas* LATREILLE, 1802

Type species: *Lytta atrata* FABRICIUS, 1775 (misidentification) = *Meloe afer* LINNAEUS, 1767, by monotypy (SELANDER, 1991). [12 species]

***Oenas crassicornis* (ILLIGER, 1800)**

Lytta crassicornis ILLIGER, 1800: 142; *Oenas ruficollis* OLIVIER, 1811: 453; *Aenas crassicornis*, BRULLÉ, 1832: 229; *Oenas crassicornis*, KASZAB, 1951: 277.

Distribution in Iran: Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Markazi (MOSLEMI et al. 2015), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Albania, Austria, Bosnia Herzegovina, Bulgaria, Croatia, Czech Republic, Greece, Hungary, Iran, Iraq, Italy, Macedonia, Montenegro, Romania, Russia (South European Territory), Serbia, Slovakia, Syria, Turkey, Ukraine.

***Oenas rubriceps* DVOŘÁK, 2004**

Oenas rubriceps DVOŘÁK, 2004: 103.

Distribution in Iran: Khuzestan (Čogá Zambil - holotype) (DVOŘÁK 2004; BATELKA & HÁJEK 2015).

General distribution: Endemic to Iran.

***Oenas tarsensis* ABEILLE DE PERRIN, 1880**

Oenas tarsensis ABEILLE DE PERRIN, 1880: 242, 244; *Oenas tenuicornis* ABEILLE DE PERRIN, 1880: 242, 245; *Oenas tenuitarsis* (sic) KASZAB, 1968: 445.

Distribution in Iran: Bushehr (SERRI 2015), Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Oenas tenuicornis* ABEILLE DE PERRIN, 1880; Serri 2015).

General distribution: Armenia, Georgia, Iran, Syria, Turkey.

***Oenas wilhelmsi* FALDERMANN, 1832**

Oenas wilhelmsi FALDERMANN, 1832: 209; *Oenas armeniacus* KASZAB, 1951: 277.

Distribution in Iran: East Azarbaijan (KASZAB 1968b), Guilan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Armenia, Azerbaijan, Iran, Turkey.

Genus *Syriolytta* KASZAB, 1962

Lytta (*Syriolytta*) KASZAB, 1962.

Type species: *Lydus vulneratus* FAIRMAIRE, 1892 (= *Lytta fairmairei* BORCHMANN, 1917; = *Lytta suturifera* PIC, 1899) (erroneously given as *Lytta vulnerata* FAIRMAIRE by KASZAB) by original designation. [Single species]

***Syriolytta suturifera* (Pic, 1899)**

Coryna suturifera PIC, 1896: 42; *Coyrna bleusei* CHOBOUT, 1896: 376.

Distribution in Iran: Fars, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Lytta* (*Syriolytta*) *suturifera* PIC; SERRI 2015).

General distribution: Iran, Iraq, Syria, Turkey.

Comments: BOLOGNA (1991) previously suggested that this taxon was distinct from *Lytta*; the elevation of *Syriolytta* to genus is justified by several traits. However, PINTO & BOLOGNA (2002) suggests that this genus belongs to *Lydus* (previous revision of the type material).

Genus *Teratolytta* SEMENOV, 1894

Type species: *Cantharis dives* BRULLÉ, 1832, by subsequent designation (WELLMAN 1910). [14 species]

***Teratolytta capillata* SERRI & BOLOGNA, 2018**

Teratolytta capillata SERRI & BOLOGNA, 2018b: 146.

Distribution in Iran: Fars (Serri & Bologna 2018b).

General distribution: Endemic to Iran.

***Teratolytta dives* (BRULLÉ, 1832)**

Cantharis dives BRULLÉ, 1832: 232; *Lytta phalerata* FRIVALDSZKY, 1837: 182; *Cantharis phalerata*, MULSANT & REY, 1858: 161; *Lytta vittata* KIESENWETTER, 1861: 250 (nec BRULLÉ, 1832); *Lytta dives*, REICHE, 1859: 89; *Lytta dives* var. *excellens* ESCHERICH, 1894: 280; *Lytta* (*Teratolytta*) *dives*, KANTARDJÉVA, 1929: 42; *Teratolytta dives*, BORCHMANN, 1917: 106 (in part).

Distribution in Iran: Golestan (KHORMALI et al. 2004), Guilan, Khorasan (KASZAB 1968b as *L. dives* ab. *phalerata*), Mazandaran (FARAHBAKHSH 1961; KASZAB 1968b as *L. dives* ab. *phalerata*; MODARRES AWAL 1997, 2012).

General distribution: Albania, Armenia, Azerbaijan, Bulgaria, Croatia, Greece, Macedonia, Montenegro, Romania, Russia (South European Territory), Serbia, Syria, Turkey, Ukraine.

Plant association in Iran: *Vicia faba* (Fabaceae) (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012).

Comments: *Teratolytta dives phalerata* FRIVALDSZKY VON FRIVALD, 1837 was reported from Golestan, Kerman and Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012). Additionally specimens of *T. phalerata* from Iran are deposited in SZMN (collection of Siberian Zoological Museum).

***Teratolytta eylandti* SEMENOV, 1894**

Teratolytta eylandti SEMENOV, 1894: 534; *Lytta eylandti*, ESCHERICH, 1896: 28; *Teratolytta holzschuhi* DVOŘÁK, 1983: 443.

Distribution in Iran: Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; BOLOGNA & DI GIULIO 2006), Iran (no locality cited) (DVOŘÁK 1996; BATELKA & HÁJEK 2015 as *Teratolytta holzschuhi* DVOŘÁK, 1983).

General distribution: Iran, Turkmenistan, Uzbekistan.

***Teratolytta flavipes* (MULSANT & REY, 1858)**

Cantharis flavipes MULSANT & REY, 1858: 163; *Lytta dives*, ESCHERICH, 1894: 280 (in part); *Lytta dives* var. *flavipes*, ABEILLE DE PERRIN, 1895: xxv; *Lytta dives* var. *semividua* ABEILLE DE PERRIN, 1895: xxv; *Lytta dives* var. *saphirina* ABEILLE DE PERRIN, 1895: xxv; *Lytta gentilis* var. *semividua*, ESCHERICH, 1896: 28; *Teratolytta dives*, BORCHMANN, 1917: 106 (in part); *Teratolytta dives* var. *flavipes*, KASZAB, 1958: 254.

Distribution in Iran: Markazi (FARAJI et al. 2012).

General distribution: Lebanon, Syria, Turkey.

***Teratolytta optabilis* (FALDERMANN, 1832)**

Lytta optabilis FALDERMAN, 1832: 209; *Teratolytta optabilis*, BORCHMANN, 1917: 107.

Distribution in Iran: Ardabil, East Azarbaijan (BOLOGNA & DI GIULIO 2006), Khorasan (MODARRES AWAL 1997 as *Lytta optabilis*).

General distribution: Armenia, Azerbaijan, Iran, Russia (South European Territory).

***Tetratolytta tricolor* (HAAG-RUTENBERG, 1880)**

Lytta tricolor HAAG-RUTENBERG, 1880: 76; *Lytta dives*, ESCHERICH, 1894: 280 (in part); *Teratolytta dives*, BORCHMANN, 1917: 107 (in part); *Teratolytta dives* var. *tricolor*, KASZAB 1958: 254.

Distribution in Iran: Golestan, Guilan, Kerman, Kermanshah, Khorasan, Mazandaran (BOLOGNA & DI GIULIO 2006; FEKRAT & MODARESS AWAL 2012).

General distribution: Iran, Uzbekistan.

Tribe Mylabrini LAPORTE, 1840

Genus Croscherichia PARDO ALCAIDE, 1950

Lybiscsa KUZIN, 1954. Type species: *Mylabris sanguinolenta* OLIVER, 1811, by original designation.

Type species: *Mylabris circumflexa* CHEVROLAT, 1837 (= *Mylabris paykulli* BILLBERG, 1813), by monotypy. [18 species]

Zonabris cirbunflexa -group, ESCHERICH, 1988: 89 (in part); *Mylabris* group *circumflexa*, CROS, 1940: 88 (in part); *Mylabris (Croscherichia)* PARDO ALCAIDE, 1950: 63,64; *Lybiscsa* KUZIN, 1954; *Croscherichia*, KASZAB, 1957: 51.

***Croscherichia goryi* (MARSEUL, 1870)**

Mylabris goryi MARSEUL, 1870: 88; *Zonabris goryi*, ESCHERICH, 1899: 89; *Croscherichia goryi*, KASZAB, 1968: 756; *Mylabris longicollis* MARSEUL i.l. (MP); *Mylabris aegyptiaca* BLANCHARD i.l. (MP).

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris goryi*), Bushehr, Khuzestan, Kuhgiluyeh & Boyerahmad (SERRI 2015), Fars, Isfahan, Kerman (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Hamadan (ISLAMI & NIKHBAKHTZADEH 2009), Hormozgan (KASZAB 1968B; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Sistan & Baluchestan (KASZAB 1957, 1968B; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (BOLOGNA & TURCO 2007).

General distribution: Arab Emirates, Iran, Iraq, Israel-Palestine, Jordan, Oman, Pakistan, Saudi Arabia, Syria.

***Croscherichia litigiosa* (CHEVROLAT, 1840)**

Mylabris litigiosa CHEVROLAT, 1840: 271; *Mylabris litigiosa* var. *islamita* MARSEUL, 1872: 467; *Zonabris litigiosa*, PIC, 1897: 69; *Zonabris alepensis* PIC, 1913: 185; *Libycisca litigiosa*, KUZIN, 1954: 370; *Libycisca alepensis*, KUZIN, 1954: 370; *Mylabris (Croscherichia) litigiosa*, PARDO ALCAIDE, 1954: 65; *Croscherichia litigiosa*, PARDO ALCAIDE, 1961: 99.

Distribution in Iran: Fars, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Hormozgan (KASZAB 1968B; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Algeria, Egypt, Iran, Israel-Palestine, Morocco, Oman, Saudi Arabia, Syria, Tunisia, "Turkestan".

***Croscherichia richteri* KASZAB, 1957**

Croscherichia richteri KASZAB, 1957: 51; *Croscherichia richteri* ab. *alfa*, *beta* KASZAB, 1983: 151.

Distribution in Iran: Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Sistan & Baluchestan (KASZAB 1957, 1968b (SW Iranshahr); MANDL 1964; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Arab Emirates, Iran, Oman, Saudi Arabia, Yemen.

***Croscherichia salavatiani* KASZAB, 1968**

Croscherichia salavatiani KASZAB, 1968: 756; *Croscherichia salavatiani* KASZAB ab. *fulguritoides* KASZAB, 1968: 756.

Distribution in Iran: Hormozgan (KASZAB 1968b as *C. salavatiani* KASZAB ab. *fulguritoides*), Sistan & Baluchestan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997), Iran (no locality cited) (BOLOGNA & TURCO 2007).

General distribution: Arab Emirates, Afghanistan, Iran, Pakistan, Saudi Arabia, Yemen.

***Croscherichia sanguinolenta sanguinolenta* (OLIVIER, 1811)**

Mylabris sanguinolenta OLIVIER, 1811: 95; *Mylabris latreillei* BILLBERG, 1813: 36; *Mylabris incerta* KLUG, 1845:n. 17, fig. 5; *Mylabris angulate* var. *incerta*, REICHE, 1865: 640; ?*Mylabris incerta* var. *usta* BAUDI DI SELVE, 1878: 1143; *Zonabris sanguinolenta* var. *notatipennis* PIC, 1897: 124; *Zonabris incerta* var. *unijuncta*, ghardaiensis PIC, 1897: 2; *Zonabris incerta* var. *andresi* PIC, 1911: 74; *Zonabris incerta* var. *adolphi* PIC, 1912: 90; *Zonabris delarouzei* var. *nedjalensis* PIC, 1920: 13; *Zonabris incerta* var. *margensis* PIC, 1924: 30; *Libycisca sanguinolenta*, KUZIN, 1954: 369; *Mylabris* (*Croscherichia*) *sanguinolenta*, PARDO ALCAIDE, 1954: 63; *Croscherichia sanguinolenta*, PARDO ALCAIDE, 1961: 99; *Mylabris munda* BLANCHARD i.l. (MP).

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008, 2009).

General distribution: Algeria, Egypt, Iran, Israel-Palestine, Jordan, Libya, Morocco, Syria, Tunisia.

***Croscherichia tigrinipennis* (LATREILLE, 1827)**

Mylabris tigrinipennis LATREILLE, 1827: 16; *Mylabris menthae* KLUG, 1845: n. 11, tab. 31; *Zonabris menthae*, ESCHERICH, 1899: 89; *Zonabris diversithorax* PIC, 1910: 18; *Zonabris menthae* var. *bisbiflexuosa* is *luxorensis* PIC, 1911: 73, 74; *Mylabris menthae* ab. *alfa* SUMAKOV, 1915: 62; *Libycisca tigrinipennis*, KUZIN, 1954: 370; *Mylabris* (*Croscherichia*) *menthae*, PARDO ALCAIDE, 1954: 63; *Croscherichia menthae* var. *nigricans*, PARDO ALCAIDE, 1961: 100; *Croscherichia tigrinipennis* var. *diversithorax*, PARDO ALCAIDE, 1969: 367. *Croscherichia tigrinipennis*, KASZAB, 1983: 152; *Zonabris alternans* LAF (?) i.l. (BM).

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Algeria, Egypt, Iraq, Israel-Palestine, Jordan, Libya, Morocco, Yemen.

***Croscherichia vigintipunctata* (OLIVIER, 1811)**

Mylabris viginti-punctata OLIVIER, 1811: 97; *Mylabris 20-punctata*, MARSEUL, 1870: 148; *Zonabris 20-punctata*, ESCHERICH, 1899: 89; *Libycisca vigintipunctata*, KUZIN, 1954: 370.

Distribution in Iran: Bushehr, Khuzestan (SERRI 2004, 2015).

General distribution: Egypt, Iran, Israel-Palestine, Jordan.

Comments: *Croscherichia vigintipunctata salavatiani* Kaszab was reported from Hormozgan and Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Genus *Hycleus* LATREILLE, 1817

Coryna BILLBERG, 1813; type species: *Mylabris argentata* FABRICIUS, 1792, by monotypy [nec *Coryna* BOSCH, 1802 (Hydrozoa) and *Coryna* WOLFF, 1811 (Hemiptera)]. *Dices* DEJEAN, 1821; type species: *Cerocoma ocellata* OLIVER, 1791, by monotypy (SELANDER, 1991). *Arithmema* CHEVROLAT, in GUÉRIN DE MÉNEVILLE, 1829-1844; type species: *Meloe decemguttata* THUNBERG, 1791, by monotypy (SELANDER, 1991). *Decatoma* DEJEAN, 1821 [nec *Decatoma* SPINOLA, 1811 (Hymenoptera); replaced by *Decapotoma* VOIGTS].

Decapotoma VOIGTS, 1902; type species: *Meloe lunata* PALLAS, 1782, by monotypy as type species of *Decatoma* DEJEAN; new name for *Decatoma* DEJEAN. *Euzonabris* KUZIN, 1954; type species: *Meloe cichorii* LINNEAUS, 1758, by original designation (as subgenus of *Mylabris* FABRICIUS, 1775). *Sphenabris* KUZIN, 1954; type species: *Meloe atrata* PALLAS, 1773, by original designation (as subgenus of *Mylabris* FABRICIUS, 1775) name originally proposed by KUZIN (1953) without designation of a type species. *Tigrabris* KUZIN, 1954; type species: *Meloe atrata* PALLAS, 1773, by original designation (as subgenus of *Mylabris* FABRICIUS, 1775) name originally proposed by KUZIN (1953) without designation of a type species. *Gorizia* PARDO ALCAIDE, 1954; type species: *Mylabris duodecimpunctata* OLIVER, 1811, by original designation (as subgenus of *Mylabris* FABRICIUS, 1775) name originally proposed by PARDO ALCAIDE (1950) without designation of a type species. *Mesogorbata* PARDO ALCAIDE, 1954; type species: *Mylabris apicipennis* REICHE, 1865, by original designation [as section of *Mylabris* (*Gorizia*) PARDO ALCAIDE, 1954; *Mesoscutata* PARDO ALCAIDE, 1954; type species: *Mylabris duodecimpunctata* OLIVER, 1811, by original designation [as section of *Mylabris* (*Gorizia*) PARDO ALCAIDE, 1954]. *Androfoveata* PARDO ALCAIDE, 1954; type species: *Mylabris duodecimpunctata* OLIVER, 1811, by original designation [as subsection of *Mylabris* (*Gorizia*) section *Mesoscutata* PARDO ALCAIDE, 1954]; name originally proposed by PARDO ALCAIDE (1950) without designation of a type species. *Mesotaeniata* PARDO ALCAIDE, 1955; type species: *Meloe lunata* PALLAS, 1782, by original designation [as section of *Mylabris* (*Gorizia*) PARDO ALCAIDE, 1954].

Type species: *Mylabris argentata* Fabricius, 1792, by original designation (BLANCHARD, 1836-1849). [Ca.430 species]

Comments: *Hycleus* is the largest genus of Meloidae that has been confused with *Mylabris* and other Mylabrini taxa by several authors. The very complex synonymies and generic definitions involved are explained by BOLOGNA (1978, 1991).

***Hycleus amrishi* MAKHAN, 2012**

Hycleus amrishi MAKHAN, 2012: 1.

Distribution in Iran: Semnan (MAKHAN 2012c).

General distribution: Endemic to Iran.

Comments: *Hycleus amrishi* is very similar to *Hycleus colligatus* (REDTENBACHER, 1850) according to its elytral pattern. We suppose that they are synonym but examining of the specimens is necessary for exact statement.

***Hycleus atratus* (PALLAS, 1773)**

Meloe atratus PALLAS, 1773: 722; *Hycleus alpha* SUMAKOV, 1915: 37; *Hycleus beta* SUMAKOV, 1915: 37; *Mylabris karelini* FISCHER VON WALDHEIM, 1842: 25; *Hycleus mediomaculatus* SUMAKOV, 1929: 4; *Mylabris metatarsalis* MARSEUL, 1870: 81; *Mylabris minutus* FABRICIUS, 1798: 121.

Distribution in Iran: East Azarbaijan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris metatarsalis* MARSEUL, 1870).

General distribution: Armenia, Afghanistan, Azerbaijan, China, Georgia, Iran, Kazakhstan, Kyrgyzstan, Mongolia, Russia (Central European Territory, South European Territory, West Siberia), Turkmenistan, Ukraine, Uzbekistan.

***Hycleus biguttatus* (GEBLER, 1841)**

Mylabris biguttatus GEBLER, 1841: 374; *Zonabris fasciculata* DOKHTOUROFF, 1889: 140; *Mylabris karateginensis* SUMAKOV, 1915: 73; *Mylabris pullata* HEYDEN, 188: 65; *Zonabris sexmaculata* DOKHTOUROFF, 1889: 141; *Zonabris similis* VOIGTS, 1902: 178.

Distribution in Iran: East Azarbaijan, Kerman (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris biguttata* GEBLER).

General distribution: Afghanistan, China, Iran, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan.

***Hycleus bipunctatus* (OLIVIER, 1811)**

Mylabris bipunctatus OLIVIER, 1811: 94.

Distribution in Iran: Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris bipunctata* A.G. OLIVIER; SERRI 2015).

General distribution: Iran, Iraq, Saudi Arabia.

***Hycleus cingulatus* (FALDERMANN, 1837)**

Mylabris cingulatus FALDERMANN, 1837: 122; *Zonabris flavipennis* DOKHTOUROFF, 1889: 157 (homonym); *Hycleus flavis* MADER, 1927: 196 (nomen novum).

Distribution in Iran: "Perse" (SUMAKOV 1915).

General distribution: Iran, Saudi Arabia, "Turkestan", "Transcaucasia".

***Hycleus colligatus* (REDTENBACHER, 1850)**

Mylabris colligatus REDTENBACHER, 1850: 49; *Mylabris succinctus* BAUDI DI SELVE, 1878: 365.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris colligata*), Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris colligata* REDTENBACHER; SERRI 2015), Hormozgan, Kerman, Kordestan, Qazvin, Sistan & Baluchestan, Zanjan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. colligata*), Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (FARAJI et al. 2012; MOSLEMI et al. 2015), Iran (no locality cited) (REDTENBACHER 1850).

New materials: Isfahan (H. Ghahari collection).

General distribution: Endemic to Iran.

***Hycleus esfandiarrii* (KASZAB, 1969)**

Decapotoma esfandiarrii KASZAB, 1969: 281.

Distribution in Iran: Bushehr (SERRI 2015), Khuzestan (Behbahan - Holotype) (KASZAB 1969), Kuhgiluyeh & Boyerahmad (KASZAB 1969; SERRI 2015).

General distribution: Iran, Israel-Palestine.

***Hycleus fimbriatus* (MARSEUL, 1870)**

Mylabris fimbriatus MARSEUL, 1870: 83; *Hycleus bafrechiana* PIC, 1955: 1047; *Zonabris bisbiseparata* PIC, 1955: 1; *Zonabris fisselensis* PIC, 1944: 7; *Zonabris laurantiana* PIC, 1955: 1; *Hycleus posticeluteonotata* PIC, 1955: 1047; *Hycleus villiersiana* PIC, 1955: 1047.

Distribution in Iran: East Azarbaijan, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris fimbriata* MARSHAM, 1870).

General distribution: Egypt, Saudi Arabia, Yemen.

***Hycleus fuscus* (OLIVIER, 1811)**

Mylabris fuscus OLIVIER, 1811: 100; *Zonabris aliena* SAHLBERG, 1913: 196; *Mylabris alpha* SUMAKOV, 1913: 307; *Mylabris beta* SUMAKOV, 1913: 306; *Zonabris circascutellaris* PIC, 1914: 77; *Mylabris deleta* MARSEUL, 1870: 92; *Zonabris galatiensis* ESCHERICH, 1899: 39; *Mylabris iota* SUMAKOV, 1930: 70; *Mylabris zeta* SUMAKOV, 1930: 7.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris* (*Gorrizia*) *fusca* OLIVIER, 1811), Ardabil (KASZAB 1968b as *Mylabris fusca* ab. *deleta*), Bushehr, Fars, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris fuscus* A.G. OLIVIER; SERRI 2015), East Azarbaijan (KASZAB 1968b as *Mylabris fusca* ab. *deleta* and *Mylabris fusca* ab. *galatiensis*; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. fuscus*), Golestan, Hamadan, Ilam, Kermanshah, Kordestan, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. fuscus*), Isfahan (MOHAMMAD-MOMENI et al. 2016), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. fuscus*; FEKRAT & MODARESS AWAL 2012), Kuhgiluyeh & Boyerahmad (SERRI 2015), Markazi (FARAJI et al. 2012; MOSLEMI et al. 2015), Mazandaran (GHAHARI et al. 2009), Tehran (MIRZAYANS 1970; AKSENTJEV 1985 as *M. (Gorrizia) fusca*; MODARRES AWAL 1997, 2012; EZZODDINLOO & MOHAMMADIAN 2012 as *M. fuscus*).

General distribution: Armenia, Azerbaijan, Iran, Iraq, Israel-Palestine, Jordan, Kazakhstan, Russia (Central European Territory, South European Territory), Syria, Turkey, Turkmenistan.

Prey records: Predator of *Doclostaurus maroccanus* (THUNBERG, 1815), *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012 as *M. fuscus*).

***Hycleus golnaze* MAKHAN & EZZATPANAH, 2011**

Hycleus golnaze MAKHAN & EZZATPANAH, 2011: 1.

Distribution in Iran: Markazi (MAKHAN & EZZATPANAH 2011c).

General distribution: Endemic to Iran.

Comments: *Hycleus golnaze* obviously is a member of *H. polymorphus* species group, but we can not be sure is it valid without examining of the specimens. We only can state that it is looked very similar to *Hycleus scabiosae scabiosae* (OLIVIER, 1811). Additionally, GHONEIM (2013c) believes that *H. golnaze* appears to be most closely allied to *Hycleus pierrei*, but there is a difference in the shape of the male gonoforceps.

***Hycleus humerosus* (ESCHERICH, 1899)**

Mylabris solonica, REICHE, 1865: 363 (nec *M. solonica* PALLAS, 1781); *Zonabris solonica*, OERTZEN, 1886: 264; *Mylabris chodscentica* var. *humerosa*, BORCHMANN, 1917: 29; *Zonabris humerosa* ESCHERICH, 1899: 97; *Mylabris solonica humerosa*, SUMAKOV, 1930: 67; *Mylabris humerosa*, MÜLLER, 1936: 92; *Coryna humerosa*, BOLOGNA, 1986: 411.

Distribution in Iran: East Azarbaijan, Fars, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris humerosa* ESCHERICH, 1899), Golestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; KHORMALI et al. 2004).

General distribution: Armenia, Azerbaijan, Georgia, Greece, Iran, Iraq, Jordan, Kazakhstan, Russia (South European Territory), Syria, Turkey, Turkmenistan, Uzbekistan.

***Hycleus javeti javeti* (MARSEUL, 1870)**

Mylabris javeti MARSEUL, 1870: 63.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris javeti*), Bushehr, Kuhgiluyeh & Boyerahmad (SERRI 2015), Fars, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Hormozgan, Kerman, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Isfahan (KASZAB 1968b as *M. (Sphenabris) javeti*; MOHAMMAD-MOMENI et al. 2016), Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (FARAJI et al. 2012; MOSLEMI et al. 2015), Sistan & Baluchestan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; EZZODDINLOO & MOHAMMADIAN 2012 as *M. javeti*).

General distribution: Iran, Iraq, "Turkestan", Turkmenistan.

Comments: KASZAB (1957) reported *Mylabris javeti* form *haratensis* KASZAB from Sistan & Baluchestan and Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Hycleus mediozigzagus* (PIC, 1924)**

Zonabris mediozigzagus PIC, 1924: 25.

Distribution in Iran: "Perse" (PIC 1924).

General distribution: Endemic to Iran.

***Hycleus mediobipunctatus* (PIC, 1919)**

Zonabris mediobipunctatus PIC, 1919: 19.

Distribution in Iran: "Perse" (PIC 1919).

General distribution: Endemic to Iran.

***Hycleus pierrei* (KASZAB, 1968)**

Mylabris pierrei KASZAB, 1968b: 765. *Mylabris (Gorizia) pierrei* ab. *abbasicus* KASZAB, 1968b: 767.

Distribution in Iran: Bushehr (SERRI 2015), Fars, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris pierrei* KASZAB; SERRI 2015), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. pierrei*), Kerman, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. pierrei*).

General distribution: Endemic to Iran.

***Hycleus pirata* BOLOGNA & TURCO, 2007**

Hycleus pirata BOLOGNA & TURCO, 2007: 16.

Distribution in Iran: Khuzestan, Kuhgiluyeh & Boyerahmad (SERRI 2015).

General distribution: Arab Emirate (BOLOGNA & TURCO 2007).

***Hycleus polymorphus polymorphus* (PALLAS, 1771)**

Attelabus polymorphus PALLAS, 1771: 465; *Meloe polymorphus fasciata* FUSSLY, 1775: 20; *Meloe polymorphus cichorii* SCHRANK VON PAULA, 1781: 222 (homonym); *Meloe polymorphus floralis* PALLAS, 1782: 82; *Mylabris polymorphus octomaculata* VILLERS, 1789: 404; *Mylabris polymorphus variabilis* OLIVIER, 1795: 47; *Mylabris polymorphus fuesslini* PANZER, 1796: 18; *Mylabris polymorphus spartii* GERMAR, 1817: 210; *Mylabris fueslini*, BRULLÉ, 1832: 229; *Mylabris dahlia*, GAUBIL, 1849: 230; *Mylabris polymorphus quadrifaria* MARSEUL, 1870: 79; *Mylabris polymorphus agilis* BAUDI DI SELVE, 1878: 367; *Mylabris polymorphus australis* BAUDI DI SELVE, 1878: 367; *Mylabris polymorphus nigrita* BAUDI DI SELVE, 1878: 368 (homonym); *Mylabris floralis*, BAUDI DI SELVE, 1878: 367; *Zonabris floralis*, OERTZEN, 1886: 264; *Zonabris polymorphus zoufali* REITTER, 1908: 272; *Hycleus polymorphus karateginensis* SUMAKOV, 1915: 73; *Zonabris polymorphus luteointerrupta* PIC, 1919: 18; *Zonabris polymorphus monetierensis* PIC, 1925: 13; *Zonabris polymorphus mulsanti* PIC, 1925: 13; *Zonabris polymorphus alpestris* PIC, 1925: 13; *Zonabris polymorphus viturati* PIC, 1925: 13; *Zonabris polymorphus baregesius* PIC, 1925: 13; *Zonabris polymorphus pelissieri* PIC, 1925: 13; *Zonabris fueslini multidisjuncta* PIC, 1929: 2; *Zonabris polymorphus multidisjuncta* PIC, 1929: 2 (homonym); *Zonabris polymorphus subjuncta* PIC, 1929: 2; *Mylabris polymorpha*, SUMAKOV, 1930: 61; *Mylabris polymorphus multijuncta* KASZAB, 1958: 190 (nomen novum); *Mylabris polymorphus nigritula* KASZAB, 1958: 190 (nomen novum); *Coryna polymorpha*, BOLOGNA, 1984: 63.

Distribution in Iran: Kermanshah and Northern provinces (FARAHBAKHS 1961; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris polymorpha* (PALLAS, 1771)).

General distribution: Andorra, Armenia, Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, Byelorussia, China, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iran, Italy, Kazakhstan, Liechtenstein, Macedonia, Moldavia, Montenegro, Romania, Russia (Central European Territory, Far East, South European Territory, West Siberia), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Syria, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Plant association in Iran: *Gossypium* sp (Malvaceae), *Sinapis* sp. (Brassicaceae), *Solanum tuberosum* (Solanaceae), *Nicotiana* sp. (Solanaceae), *Triticeae* sp (Poaceae) (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012).

Prey records: Predator of *Dociostaurus* spp. and *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012 as *M. polymorpha*).

***Hycleus quatuordecimpunctatus* (PALLAS, 1781)**

Meloe quatuordecimpunctatus PALLAS, 1781: 80; *Mylabris conbusta* TAUSCHER, 1812: 143; *Mylabris confusa* FISCHER VON WALDHEIM, 1827: 6; *Mylabris meliloti* OLIVIER, 1811: 99; *Mylabris setigera* WALTZ, 1838: 466.

Distribution in Iran: Northern provinces (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012 as *Mylabris quatuordecimpunctata* (PALLAS, 1781)).

General distribution: Armenia, Iran, Kazakhstan, Russia (Central European Territory, East Siberia, South European Territory, West Siberia), Turkey, Ukraine, Uzbekistan.

Plant association in Iran: *Hordeum vulgare* (Poaceae), *Cucumis sativus* (Cucurbitaceae), *Cucumis melo* (Cucurbitaceae), *Nicotiana* sp. (Solanaceae), *Citrullus lanatus* (Cucurbitaceae), *Triticeae* sp. (Poaceae) (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012 as *M. quatuordecimpunctata*).

Prey records: Predator of *Doclostaurus* spp. and *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012 as *M. quatuordecimpunctata*).

***Hycleus raphael* (MARSEUL, 1876)**

Mylabris raphael MARSEUL, 1876: 29.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris raphael*), Sistan & Baluchestan (Shah-Bahar = Chabahar) (KASZAB 1968b).

General distribution: Egypt, Iran, Israel-Palestine.

***Hycleus scabiosae djiroftanus* (KASZAB, 1959)**

Mylabris djiroftana KASZAB, 1959: 3.

Distribution in Iran: Kerman (Jiroft) (KASZAB 1959), Fars (MIRZAYANS 1970; MODARRES AWAL 1997 as *Mylabris scabiosae djiroftana* KASZAB, 1959).

General distribution: Endemic to Iran.

Comments: Two new forms, *Mylabris scabiosae djiroftana* ab. *progressiva* ab. nov. and *M. scabiosae djiroftana* ab. *heterodera* ab. nov. were collected from Kerman and described by KASZAB (1959).

***Hycleus scabiosae scabiosae* (OLIVIER, 1811)**

Mylabris scabiosae OLIVIER, 1811: 99; *Mylabris scabiosae alienigera* HEYDEN, 1883: 67; *Zonabris scabiosae auliensis* PIC, 1901: 111; *Mylabris scabiosae delta* SUMAKOV, 1930: 70; *Zonabris scabiosae eichleri* MADER, 1927: 194; *Mylabris scabiosae epsilon* SUMAKOV, 1930: 70; *Mylabris scabiosae euphratica* MARSEUL, 1870: 84; *Mylabris scabiosae ghorbandana* KASZAB, 1958: 295; *Zonabris scabiosae maracadensis* DOKHTOUROFF, 1889: 130; *Mylabris scabiosae marseuli* BALLION, 1878: 336; *Zonabris scabiosae sicheri* FLEISCHER, 1921: 142; *Zonabris scabiosae transcaspicensis* PIC, 1928: 5; *Coryna scabiosae*, BOLOGNA, 1986: 411.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris scabiosae* and *M. scabiosae euphratica*), Ardabil (KASZAB 1968B as *M. (Gorizia) scabiosae euphratica*), East Azarbaijan, Golestan, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris scabiosae* A.G. OLIVIER, 1811), Fars, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. scabiosae*; SERRI 2015), Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (FARAJI et al. 2012; MOSLEMI et al. 2015), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; EZZODDINLOO & MOHAMMADIAN 2012 as *M. scabiosae*), West Azarbaijan (NIKBAKHTZADEH et al. 2012), Northern provinces (FARAHBAKHSI 1961; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. scabiosae*).

New materials: Bushehr (Nowakowski coll.), Semnan (H. Ghahari collection).

General distribution: Armenia, Azerbaijan, Bulgaria, China, Georgia, Greece, Iran, Iraq, Israel-Palestine, Jordan, Kazakhstan, Lebanon, Mongolia, Romania, Russia (Central European Territory, South European Territory), Syria, Turkey, Turkmenistan, Uzbekistan.

Plant association in Iran: *Phaseolus vulgaris* (Fabaceae), *Linum usitatissimum* (Linaceae), *Medicago sativa* (Fabaceae), *Sinapis* sp. (Brassicaceae), *Pisum*

sativum (Fabaceae), *Glycine max* (Fabaceae) (FARAHBAKHSI 1961; MODARRES AWAL 1997, 2012).

Comments: *Mylabris scabiosae euphratica* MARSEUL, 1870 was reported from East Azarbaijan, Fars, Golestan, Kerman, Kermanshah, Khuzestan, Kordestan, Lorestan, Sistan & Baluchistan and Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Hycleus schah shah* (REICHE, 1866)**

Mylabris shah REICHE, 1866: 632; *Mylabris (Euzonabris) schach* ab. *postluteodisjuncta* KASZAB, 1957: 59; *Mylabris (Euzonabris) schach* ab. *postluteoreducta* KASZAB, 1957: 59.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris shah*), Bushehr, Kuhgiluyeh & Boyer-Ahmad (SERRI 2015), Fars (KASZAB 1957 as *M. schah* ab. *pseudoputeoreducta* ab. nov.), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. (Euzonabris) schah* REICHE), Kerman, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. schah* REICHE), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. schah* REICHE; FEKRAT & MODARRES AWAL 2012), Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. schah*; SERRI 2015), Sistan & Baluchistan (KASZAB 1957 as *M. (Euzonabris) schach* REICHE; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. schah* form *postluteoreductus* KASZAB, 1957), Iran (no locality cited) (REICHE 1865; BOLOGNA & TURCO 2007).

General distribution: Endemic to Iran.

Comments: Some forms of *Mylabris schah* including, *M. schah* ab. *anticebinotula* KASZAB, *M. schah* ab. *anticebinotula* KASZAB, *M. schah* ab. *famurii* KASZAB, *M. schah* ab. *morosa* KASZAB, *M. schah* form *pseudoputeoreducta* KASZAB, *M. schah* ab. *pseudotenebrosa* KASZAB, *M. schah* ab. *postluteodisjuncta* KASZAB were recorded by KASZAB (1957, 1968b), MIRZAYANS (1970), and MODARRES AWAL (1997, 2012) from Hormozgan, Kerman and Sistan & Baluchistan. Additionally, *Mylabris (Euzonabris) schach* ab. *postluteoreducta* was reported from Sistan & Baluchistan by KASZAB (1957, 1968b), *Mylabris schah* ab. *pseudotenebroides* and *Mylabris schah* ab. *kermanica* from Kerman by KASZAB (1968b).

***Hycleus schauffelei* (KASZAB, 1957)**

Mylabris schauffelei KASZAB, 1957: 57; *Mylabris anticebiconjuncta* KASZAB, 1957: 58; *Mylabris bisbisconjuncta* KASZAB, 1957: 58; *Mylabris postmedijuncta* KASZAB, 1957: 58.

Distribution in Iran: Fars, Khorasan, Khuzestan, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris schäuffelei* KASZAB, 1957), Hormozgan, Kerman (KASZAB 1968b as *M. (Sphenabris) schäuffelei* ab. *postmedijuncta*; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. schäuffelei*), Sistan & Baluchistan (KASZAB 1957, 1968b (NW Iranshahr) as *M. (Sphenabris) schäuffelei* ab. *anticebiconjuncta*; Mirzayans 1970; MODARRES AWAL 1997, 2012 as *M. schäuffelei*).

General distribution: Endemic to Iran.

Plant association: in Iran: *Beta vulgaris* (Amaranthaceae) (MODARRES AWAL 1997).

Comments: KASZAB (1957) described three forms, *Mylabris schäuffelei* ab.

anticebiconjuncta ab. nov., *M. schäuffelei* ab. *bisbiconjuncta* ab. nov. and *M. schäuffelei* ab. *postmediojuncta* ab. nov. from Sistan & Baluchestan.

***Hycleus sexmaculatus* (OLIVIER, 1811)**

Mylabris sexmaculatus OLIVIER, 1811: 98; *Mylabris bimaculata* KLUG, 1845: nr. 32 (homonym); *Mylabris ledereri* MARSEUL, 1870: 57; *Zonabris oneraa* ESCHERICH, 1899: 109; *Mylabris superba* FALDERMANN, 1837: 123.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris bimaculata* and *Mylabris sexmaculata*), East Azarbaijan, Khorasan, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris sexmaculata lederei* MARSEUL), Iran (no locality cited) (BOLOGNA & TURCO 2007).

General distribution: Armenia, Azerbaijan, Georgia, Iran, Israel-Palestine, Jordan, Kazakhstan, Russia (South European Territory), Saudi Arabia, Syria, "Turkestan", Turkey, Ukraine.

Comments: Farahbakhsh (1961) reported *Mylabris bimaculata* A.G. OLIVIER, 1811 from Khorasan on sugar-beet, *Beta vulgaris* (Amaranthaceae).

***Hycleus subparallelus* (PIC, 1919)**

Zonabris subparallelus PIC, 1919: 19.

Distribution in Iran: "Perse" (PIC 1919).

General distribution: Endemic to Iran.

***Hycleus tekkensis tekkensis* (HEYDEN, 1883)**

Zonabris tekkensis HEYDEN, 1883: 360; *Mylabris tekkensis adnexa* MADER, 1929: 109; *Mylabris tekkensis atava* MADER, 1929: 109; *Mylabris tekkensis imitata* MADER, 1929: 109; *Zonabris tekkensis latebifasciata* PIC, 1919: 18.

Distribution in Iran: Khorasan, Tehran (MODARRES AWAL 1997, 2012 as *Mylabris tekkensi* (HEYDEN, 1883)), Sistan & Baluchestan (KASZAB 1957 as *M. (Gorrizia) tekkensi* ab. *adnexa*).

General distribution: Afghanistan, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

Plant association in Iran: *Beta vulgaris* (Amaranthaceae) (MODARRES AWAL 1997, 2012).

***Hycleus trianguliferus reitterioides* (MADĚR, 1929)**

Mylabris reitterioides MADĚR, 1929: 108; *Mylabris trianguliferus bushirensis* MADĚR, 1929: 109.

Distribution in Iran: Bushehr (MADĚR 1929 as *M. trianguliferus bushirensis*; SERRI 2015), Fars (KASZAB 1968b as *Mylabris triangulifera reitteroides* MADĚR; SERRI 2015), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. triangulifera reitteroides*), Kermanshah, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. triangulifera reitteroides*), Kerman (KASZAB 1959, 1968b as *M. triangulifera reitteroides*), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. triangulifera reitteroides*; FEKRAT & MODARESS AWAL 2012), Khuzestan (SERRI 2015), Sistan & Baluchestan (KASZAB 1957, 1968b as *M. triangulifera reitteroides bushirensis*; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. triangulifera reitteroides*).

General distribution: Endemic to Iran.

***Hycleus trianguliferus trianguliferus* (HEYDEN, 1883)**

Zonabris trianguliferus HEYDEN, 1883: 359.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris triangulifera*), Hormozgan, Kerman, Sistan & Baluchestan, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. triangulifera* (HEYDEN)).

General distribution: Afghanistan, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

***Hycleus zebraeus* (MARSEUL, 1870)**

Mylabris zebraeus MARSEUL, 1870: 79; *Mylabris zebraea*, BAUDI DI SELVE, 1878: 367; *Zonabris kervillei* PIC, 1932: 17; *Zonabris tenenbaumi* PIC, 1928: 5; *Coryna zebraea*, BOLOGNA, 1979: 164.

Distribution in Iran: East Azarbaijan, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris zebrata* MARSEUL), Fars (SERRI 2015), Isfahan (MOHAMMAD-MOMENI et al. 2016), Khorasan (FEKRAT & MODARESS AWAL 2012), Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *M. zebrata*; SERRI 2015), Markazi (MOSLEMI et al. 2015).

General distribution: Albania, Armenia, Azerbaijan, Bosnia Herzegovina, Bulgaria, Georgia, Greece, Iran, Iraq, Israel-Palestine, Jordan, Macedonia, Syria, "Turkestan", Turkey, Turkmenistan, Uzbekistan.

Genus *Lydoceras* MARSEUL, 1870

Mylabris (Lydoceras) MARSEUL, 1870; *Denierus* PIC, 1913; *Lydoceras*, BORCHMANN, 1917.

Type species: *Mylabris fasciata* FABRICIUS, 1775, by monotypy. [4 species]

***Lydoceras bilineatus* THOMAS, 1897**

Lydoceras bilineatus THOMAS, 1897: xix, 501.

Distribution in Iran: Hamadan (NIKHAKHTZADEH & TIRGARI 2002a, b).

General distribution: "Arabia".

Genus *Mylabris* FABRICIUS, 1775

Zonabris HAROLD, 1879; type species: *Meloe cochorii* LINNÉ, 1758, by fixation as type species of *Mylabris* FABRICIUS (SELANDER, 1991); invalid replacement name for *Mylabris* FABRICIUS. *Megabris* DES GOZIS, 1881; type species: *Meloe cichorii* LINNEAUS, 1758, according to SELANDER (1991), by fixation as type species of *Mylabris* FABRICIUS; invalid replacement name for *Mylabris* FABRICIUS. *Androplicata* PARDO ALCAIDE, 1948; without type species designation (as section, not an available name = *Mylabris (Mylabris)* KUZIN, 1954). *Mesosulcata* PARDO ALCAIDE, 1950 (as section; currently valid subgenus); type species: *Mylabris hieracii* GRÆLLS, 1849, by monotypy. *Lachnabris* KUZIN, 1953 (as subgenus; currently valid); type species: *Mylabris mannerheimi* GEBLER, 1845, by monotypy. *Monabris* KUZIN, 1953 (as subgenus; currently valid); type species: *Mylabris undecimpunctata* FISCHER VON WALDHEIM, 1842, by monotypy. *Ammabris* KUZIN, 1954 (as subgenus; currently valid); type species: *Mylabris elegans* OLIVER, 1811, by original designation. *Argabris* KUZIN, 1954 (as subgenus; currently valid); type species: *Meloe ocellata* PALLAS, 1773, by original designation. *Chalcabris* KUZIN, 1954 (as subgenus; currently valid); type species: *Meloe*

festiva PALLAS, 1773, by original designation. *Chrysabris* KUZIN, 1954 (as subgenus; currently valid); type species: *Meloe trifascis* PALLAS, 1773, by original designation. *Eumylabris* KUZIN, 1954 (as subgenus; currently valid); type species: *Mylabris decempunctata* FABRICIUS, 1792 (= *Mylabris fabricii* SOUMACOV, 1924) by original designation. *Glaucabris* KUZIN, 1954 (as subgenus; = *Mylabris (Mesosulcata)* PARDO ALCAIDE, 1950); type species: *Mylabris hieracii* GRÄLLS, 1849, by original designation. *Micrabris* KUZIN, 1954 (as subgenus; currently valid); type species: *Mylabris geminate* FABRICIUS, 1798, by original designation. *Mesolaevigata* PARDO ALCAIDE, 1954 (as section; = *Mylabris (Micrabris)* KUZIN, 1954); type species: *Mylabris geminate* FABRICIUS, 1798, by original designation. *Mesopunctata* PARDO ALCAIDE, 1954 (as section of *Mylabris*; = *Mylabris (Mylabris)* FABRICIUS, 1775); type species: *Meloe quadripunctata* LENNAEUS, 1767, by original designation. *Mesorbata* PARDO ALCAIDE, 1954 (as section; = *Mylabris (Ammabris)* KUZIN, 1954); type species: *Mylabris elegans* OLIVER, 1811, by original designation; synonymized in error with *Mylabris (Argabris)* by BOLOGNA, 1991. *Neabris* KASZAB, 1958 (as subgenus; = *Mylabris (Eumylabris)* KUZIN, 1954); type species: *Mylabris klapperichii* KASZAB, 1958, by original designation. *Calydabris* KASZAB, 1960 (as subgenus; currently valid); type species: *Calydus allousei* KASZAB, 1960, by original designation. *Mauritabris* PARDO ALCAIDE, 1969 (as subgenus; currently valid); type species: *Mylabris tenebrosa* LAPORTE DE CASTELNAU, 1840, by original designation. *Zitunabris* PARDO ALCAIDE, 1969 (as subgenus; currently valid); type species: *Mylabris oleae* CHEVROLAT, 1837, by original designation.

Type species: *Meloe cichorii* LINNÉ, 1758, by subsequent designation (LATREILLE 1810).

C o m m e n t s : PINTO & BOLOGNA (2002) treated *Calydabris* KASZAB as a subgenus of *Mylabris*. It previously was considered a subgenus of the lyttine genus *Calydus* REITTER, and SELANDER (1991) had treated as distinct mylabrine genus.

Mylabris gebleri FALDERMANN, 1837 (endemic to Iran (BOLOGNA 2008)) is considered as "nomen *dubium*" by BOLOGNA (2008).

Subgenus *Ammabris* KUZIN, 1954

***Mylabris (Ammabris) elegantissima* ZUBKOV, 1837**

D i s t r i b u t i o n i n I r a n : "Perse" (SUMAKOV 1915).

G e n e r a l d i s t r i b u t i o n : Afghanistan, China, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

***Mylabris (Ammabris) laticollis* (ESCHERICH, 1899)**

Zonabris laticollis ESCHERICH, 1899: 99; *Mylabris alpha* SUMAKOV, 1915: 50.

D i s t r i b u t i o n i n I r a n : Kerman (KASZAB 1968b as *Mylabris (Ammabris) laticollis* ab. *alpha* SUMAKOV, 1915), Kermanshah, Kordestan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khorasan (FARAHBAKSH 1961; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

G e n e r a l d i s t r i b u t i o n : Azerbaijan, Iran, Turkmenistan.

P l a n t a s s o c i a t i o n i n I r a n : *Beta vulgaris* (Amaranthaceae) (Farahbakhsh 1961; Modarres Awal 1997, 2012).

P r e y r e c o r d s : Predator of *Calliptamus* spp. and *Dociostaurus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012).

C o m m e n t s : *Mylabris (Ammabris) laticollis* ab. *davatchii* KASZAB and *Mylabris*

(*Ammabris*) *laticollis* ab. *mirzayani* KASZAB were reported from Kermanshah and Kordestan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), *Mylabris* (*Ammabris*) *laticollis* ab. *gharibi* KASZAB from Kermanshah and Kordestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Subgenus *Argabris* KUZIN, 1954

***Mylabris* (*Argabris*) *audouini* MARSEUL, 1870**

Mylabris (*Argabris*) *audouini* MARSEUL, 1870: 141.

Distribution in Iran: Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: China, Iran, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan.

***Mylabris* (*Argabris*) *klugi klugi* REDTENBACHER, 1850**

Mylabris klugi REDTENBACHER, 1850: 49; *Zonabris klugi graffi* PIC, 1947: 10.

Distribution in Iran: Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (FARAJI et al. 2012; Moslemi et al. 2015), Tehran (SERRI et al. 2003, 2006; FEKRAT & MODARESS AWAL 2012).

General distribution: China, Iran, Kazakhstan, Tajikistan, Turkmenistan.

Comments: *Mylabris* (*Argabris*) *sedecimpunctata klugi* REDTENBACHER was reported from Fars, Isfahan, Kerman, Sistan & Baluchestan, and Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Mylabris* (*Argabris*) *sedecimpunctata* GEBLER, 1825**

Mylabris (*Argabris*) *sedecimpunctata* GEBLER, 1825: 49; *Mylabris alpha* SUMAKOV, 1913: 305; *Mylabris beta* SUMAKOV, 1913: 306; *Zonabris gilana* PIC, 1924: 26; *Mylabris quindecimpunctata* SUMAKOV, 1909: 220; *Zonabris teuepunctata* DOKHTOUROFF, 1889: 165; *Zonabris wilkinsi* DOKHTOUROFF, 1889: 155.

Distribution in Iran: "Perse" (SUMAKOV 1915), Isfahan (KASZAB 1968b).

General distribution: Afghanistan, China, Iran, Kazakhstan, Kyrgyzstan, Mongolia, Russia (West Siberia), Tajikistan, Turkmenistan, Uzbekistan.

Subgenus *Calydabris* KASZAB, 1960

***Mylabris* (*Calydabris*) *alloushei* (KASZAB, 1960)**

Calydus alloushei KASZAB, 1960: 131; *Calydus cinctus* KASZAB, 1960: 133.

Distribution in Iran: Fars, Khuzestan (SERRI 2015), Hamadan (NIKHBAKHTZADEH & TIRGARI 2002a, b as *Calydus alloushei*), Hormozgan (KASZAB 1968b as *Calydus* (*Calydabris*) *alloushei* KASZAB, 1960; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. alloushei* KASZAB, 1960).

General distribution: Iran, Iraq.

Comments: Several forms including, *Calydus alloushei* form *bimaculipennis* KASZAB (Hormozgan), *Calydus alloushei* form *cinctus* KASZAB (Fars, Khuzestan, Sistan & Baluchestan), *Calydus alloushei* form *conjunctus* KASZAB (Kerman, Sistan &

Baluchestan), *Calydus alloushei* form *cordiformis* KASZAB (Sistan & Baluchestan), *Calydus alloushei* form *esfandiarii* KASZAB, *Calydus alloushei* form *gharibi* KASZAB (both from Sistan & Baluchestan), *Calydus alloushei* form *famourei* KASZAB (Kerman, Sistan & Baluchestan), *Calydus alloushei* form *farahbakhshi* KASZAB (Sistan & Baluchestan), *Calydus alloushei* form *trifascis* KASZAB (Kerman, Sistan & Baluchestan) were reported from Iran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), *Calydus alloushei* form *iransharica* (Sistan & Baluchestan) and *Calydus alloushei* form *bimaculicollis* (Hormozgan, Sistan & Baluchestan) by KASZAB (1968b).

***Mylabris (Calydabris) mirzayani* (KASZAB, 1968)**

Calydus mirzayani KASZAB, 1968b: 769; *Calydus medialis* KASZAB, 1968b: 771.

Distribution in Iran: Isfahan (KASZAB 1968b as *Calydus mirzayani* ab. *medialis*; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. mirzayani* KASZAB, 1968; MOHAMMAD-MOMENI et al. 2016), Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. mirzayani*), Markazi (MOSLEMI et al. 2015), Sistan & Baluchestan (KASZAB 1968b as *C. mirzayani* ab. *medialis*; MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. mirzayani* KASZAB, 1968), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *C. mirzayani*; SERRI et al. 2003, 2006).

General distribution: Endemic to Iran.

Comments: *Calydus mirzayani* form *eghlidi* KASZAB, *Calydus mirzayani* form *medialis* KASZAB, *Calydus mirzayani* form *mehrana* KASZAB were reported from Kermanshah, and *Calydus mirzayani* form *posticalis* Kaszab from Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Subgenus *Chalcabris* KUZIN, 1954

***Mylabris (Chalcabris) coeruleomaculata* REDTENBACHER, 1843**

Mylabris coeruleomaculata REDTENBACHER, 1843: 987; *Decapotoma jarrahiana* KASZAB, 1959: 4; *Decapotoma shadegana* KASZAB, 1959: 4; *Mylabris subhumeralis* PIC, 1908: 74; *Mylabris viridiflua* MARSEUL, 1873: 654.

Distribution in Iran: "Perse" (SUMAKOV 1915), Khuzestan (KASZAB 1959; SERRI 2015), Iran (no locality cited) (Bologna 2008).

General distribution: Iraq, Israel-Palestine, Jordan, Lebanon, Syria.

Comments: *Mylabris coeruleomaculata* ab. *subhumeralis* Pic, *M. coeruleomaculata* ab. *jarrahiana* ab. nov. and *M. coeruleomaculata* ab. *shadegana* ab. nov. were reported from Khuzestan by KASZAB (1959).

***Mylabris (Chalcabris) coerulescens* GEBLER, 1841**

Mylabris coerulescens Gebler, 1841: 374.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, China, Iran, Kazakhstan, Russia (South European Territory), Tajikistan, Turkmenistan, Uzbekistan.

***Mylabris (Chalcabris) festiva* (PALLAS, 1773)**

Distribution in Iran: Kordestan (SAKENIN et al. 2018).

General distribution: Armenia, Bulgaria, China, Greece, Kazakhstan, Macedonia, Mongolia, Romania, Russia (Central European Territory, East Siberia, South European Territory, West Siberia), Turkey, Ukraine.

***Mylabris (Chalcabris) koenigi* (DOKHTOUROFF, 1889)**

Zonabris koenigi DOKHTOUROFF, 1889: 143.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

***Mylabris (Chalcabris) marginata* FISCHER VON WALDHEIM, 1844**

Mylabris (Chalcabris) marginata FISCHER VON WALDHEIM, 1844: 136.

Distribution in Iran: West Azarbaijan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Armenia, Azerbaijan, China, Iran, Russia (East Siberia).

Subgenus *Chrysabris* KUZIN, 1954

***Mylabris (Chrysabris) doriai* MARSEUL, 1870**

Mylabris doriai MARSEUL, 1870: 164; *Mylabris boetcheri* PIC, 1909: 171; *Mylabris centropunctata* BODEMEYER, 1916: 112 (*homonym*); *Mylabris centropunctatella* KASZAB, 1958: 189 (*nomen novum*); *Zonabris daligrandi* PIC, 1947: 7; *Mylabris luristanica* PIC, 1920: 12; *Mylabris magnificia* BODEMEYER, 1916: 112; *Mylabris persicola* PIC, 1909: 171; *Mylabris unifasciata* BODEMEYER, 1916: 112 (*homonym*); *Zonabris viridibifasciata* PIC, 1920: 13; *Zonabris viridifasciata* PIC, 1920: 13.

Distribution in Iran: "Perse" (SUMAKOV 1915), Isfahan (KASZAB 1968b; MOHAMMAD-MOMENI et al. 2016), Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Markazi (MOSLEMI et al. 2015), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997; SERRI et al. 2003, 2006).

General distribution: Iran, Iraq.

Comments: *Mylabris (Chrysabris) doriai* form *alpha* Soum., *Mylabris (Chrysabris) doriai* form *bodoi* PIC and *Mylabris (Chrysabris) doriai* form *boettcheri* PIC were reported from Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Mylabris (Chrysabris) gemmula* DOHRN, 1873**

Mylabris (Chrysabris) gemmula DOHRN, 1873: 73.

Distribution in Iran: "Perse" (SUMAKOV 1915).

General distribution: Iran, Turkmenistan.

***Mylabris (Chrysabris) hemprichi* KLUG, 1845**

Mylabris hemprichi KLUG 1845: 3. = *kocheri* PARDO ALCAIDE, 1954a: 68.

Distribution in Iran: "Perse" (SUMAKOV 1915), Bushehr (SERRI 2015), Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khuzestan (KASZAB 1959), Iran (no locality cited) (BOLOGNA 2008, 2009).

General distribution: Algeria, Egypt, Iran, Iraq, Israel-Palestine, Jordan, Libya, Morocco, Syria, Tunisia.

Prey records: Predator of *Dociostaurus maroccanus* (THUNBERG, 1815), *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012).

***Mylabris (Chrysabris) kraatzi* (HEYDEN, 1881)**

Decatoma kraatzi Heyden, 1881: 329.

Distribution in Iran: "Perse" (HEYDEN 1881; SUMAKOV 1915).

General distribution: Endemic to Iran.

***Mylabris (Chrysabris) plurivulnera* DOHRN, 1873**

Mylabris plurivulnera DOHRN, 1873: 73; *Mylabris marseuli* KIRSCH, 1880: 77 (homonym); *Mylabris viridula* MARSEUL, 1882: 170 (nomen novum).

Distribution in Iran: "Perse" (SUMAKOV 1915).

General distribution: Iran, Turkmenistan.

***Mylabris (Chrysabris) trifascis* (PALLAS, 1773)**

Meloe trifascis PALLAS, 1773: 721.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, Iran, Kazakhstan, Russia (West Siberia), "Turkestan", Turkmenistan.

Subgenus *Eumylabris* KUZIN, 1954

***Mylabris (Eumylabris) impressa impressa* CHEVROLAT, 1837**

Mylabris impressa CHEVROLAT, 1837: 275; *Zonabris impressa oranensis* PIC, 1909: 185; *Zonabris impressa vaucheri* ESCALERA, 1914: 400; *Zonabris vaucheri* ESCALERA, 1914: 400; *Zonabris impressa aini* PIC, 1921: 4; *Zonabris aini* PIC, 1921: 4; *Mylabris impressa antejuncta* PARDO ALCAIDE, 1955: 54; *Mylabris impressa bisbijuncta* PARDO ALCAIDE, 1955: 55; *Mylabris impressa externobliterata* PARDO ALCAIDE, 1955: 55; *Mylabris (Mylabris) (Mesolaevigata) impressa*, PARDO ALCAIDE, 1969: 374; *Mylabris (Eumylabris) impressa*, KUZIN, 1954: 356.

Distribution in Iran: Hamadan (NIKBAKHTZADEH & TIRGARI 2002a, b; NIKBAKHTZADEH & EBRAHIMI 2007, 2008; NIKBAKHTZADEH et al. 2008), Markazi (FARAJI et al. 2012).

General distribution: Algeria, Morocco, Tunisia.

Prey records: Egg predator of *Schistocerca gregaria* (Orthoptera: Acrididae) (Nikbakhtzadeh et al. 2008). On flowers or stems of different wild shrubs of the family Asteraceae (NIKBAKHTZADEH & EBRAHIMI 2007).

***Mylabris (Eumylabris) calida* (PALLAS, 1782)**

Meloe calida PALLAS, 1781: 85; *Mylabris bimaculata* OLIVIER, 1811: 94; *Mylabris maculata*, BRULLÉ, 1832: 228; *Zonabris calida*, OERTZEN, 1886: 264; *Mylabris calida*, MARSEUL, 1872: 519; *Mylabris (Eumylabris) calida*, KUZIN, 1954: 315; *Mylabris aschnae* MAKHAN & EZZATPANAH, 2011: 1.

Distribution in Iran: "Perse" (SUMAKOV 1915), Bushehr, Chaharmahal & Bakhtiari, Kuhgiluyeh & Boyerahmad (SERRI 2015), East Azarbaijan (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012), Fars (KASZAB 1968b as *Mylabris (Eumylabris) calida* var. *posticalis* DOKHTOUROFF, 1889; SERRI 2015), Hormozgan (KASZAB 1968b as *M. (Eumylabris) calida maculata* ab. OLIVIER, 1795), Isfahan (KASZAB 1968b; SERRI 2015; MOHAMMAD-MOMENI et al. 2016), Kerman (MANDL 1964), Khorasan (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012; FEKRAT & MODARESS AWAL 2012), Khuzestan (KASZAB 1959; SERRI 2015), Markazi (MAKHAN & EZZATPANAH 2011a as *M. aschnae*; MOSLEMI et al. 2015), Mazandaran (GHAHARI et al. 2009), Semnan (MAKHAN 2012b as *M. aschnae*), Tehran (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006).

New materials: Golestan (H. Ghahari collection).

General distribution: Afghanistan, Algeria, Armenia, Azerbaijan, Bulgaria, China, Egypt, Georgia, Greece, Iran, Iraq, Israel-Palestine, Jordan, Kazakhstan, Kyrgyzstan, Lebanon, Libya, Macedonia, Mongolia, Morocco, North Korea, Tunisia, Russia (Central European Territory, East Siberia, Far East, South European Territory, West Siberia), Saudi Arabia, South Korea, Syria, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan, Yemen.

Plant association in Iran: *Hordeum vulgare* (Poaceae); *Medicago sativa* (Fabaceae); *Sinapis* sp. (Brassicaceae); *Pisum sativum* (Fabaceae), *Solanum tuberosum* (Solanaceae); *Beta vulgaris* (Amaranthaceae); *Nicotiana* sp. (Solanaceae); *Trigo* sp. (Poaceae) (MODARRES AWAL 1997, 2012). Flowers of *Citrullus vulgaris* L. (Cucurbitaceae) (Makhan & Ezzatpanah 2011a), *Cichorium intybus* (Asteraceae), *Echinops* sp. (Asteraceae) and *Perovskia atriplicifolia* Benth (Lamiaceae) (MAKHAN 2012b).

Prey records: Predator of *Doclostaurus maroccanus* (THUNBERG, 1815), *Locusta migratoria* (LINNAEUS, 1758) (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012).

Comments: *Mylabris (Eumylabris) calida* form *maculata* A.G. OLIVIER, 1795 (from East Azarbaijan, Fars, Hormozgan, Isfahan, Kerman, Kermanshah, Khorasan, Mazandaran, Tehran) and *Mylabris (Eumylabris) calida* form *pseudomaculata* A.G. OLIVIER (from East Azarbaijan, Fars, Golestan, Guilan, Hormozgan, Isfahan, Kerman, Kermanshah, Khorasan, Lorestan, Mazandaran, Tehran) were reported on sugar-beet and tobacco (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Additionally, four new forms including, *Mylabris calida* var. *posticalis* DOKHTOUROFF ab. *falsomaculata* ab. nov., *M. calida* var. *posticalis* DOKHTOUROFF ab. *shushana* ab. nov., *M. calida* var. *posticalis* DOKHTOUROFF ab. *khuzistanica* ab. nov. and *M. calida* var. *posticalis* Dokhtouroff ab. *kuzistana* ab. nov. were described by KASZAB (1959) from Khuzestan. Also, *Mylabris calida* var. *posticalis* DOKHTOUROFF ab. *pseudomaculata* KASZAB was reported by KASZAB (1957) from Tehran.

Mylabris aschnae Makhan & Ezzatpanah, 2011 is synonym to *Mylabris (Eumylabris) calida* (Zhao Pan and Dewanand Makhan - personal communications), although GHONEIM (2013c) believes that *M. aschnae* is easily separated by the setae of the tarsus and by the shape of the male aedeagus.

***Mylabris (Eumylabris) cincta* OLIVIER, 1811**

Mylabris cincta OLIVIER, 1795: 98; *Mylabris tiflensis* BILLBERG, 1813: 13; *Mylabris matthesi*, FALDERMANN, 1837: 120; *Mylabris bicolor* WALT, 1838: 465; *Mylabris taeniata* WALT, 1838: 465; *Mylabris tricingulata* REDTENBACHER, 1850: 49; *Mylabris jugatoria* REICHE, 1865: 633; *Zonabris diversepunctata* PIC, 1921: 5; *Zonabris soubironi* PIC, 1921: 5; *Mylabris (Eumylabris) cincta*, KUZIN, 1954: 356; *Mylabris minae* MAKHAN & EZZATPANAH, 2011: 1.

Distribution in Iran: "Perse" (SUMAKOV 1915), Bushehr, Kuhgiluyeh & Boyer-Ahmad (SERRI 2015), Chaharmahal & Bakhtiari (KASZAB 1968b; SERRI 2015), East Azarbaijan, Kerman, Kermanshah, Lorestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Isfahan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; FEKRAT & MODARRES AWAL 2012), Khuzestan (KASZAB 1959; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Markazi (MANDL 1964; MAKHAN & EZZATPANAH 2011b as *Mylabris minae* MAKHAN & EZZATPANAH, 2011; FARAJI et al. 2012; MOSLEMI et al. 2015), Mazandaran (MIRZAYANS 1970; AKSENTJEV 1985; MODARRES AWAL 1997, 2012), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006).

General distribution: Afghanistan, Algeria, Armenia, Azerbaijan, Egypt, Georgia, Greece, India, Iran, Iraq, Israel-Palestine, Jordan, Kazakhstan, Libya, Macedonia, Morocco, Pakistan, Russia (Central European Territory, South European Territory), Saudi Arabia, Syria, Tunisia, Turkey, Ukraine.

Plant association in Iran: *Beta vulgaris* (Amaranthaceae) (MODARRES AWAL 1997, 2012), flowers of *Citrullus vulgaris* L. (Cucurbitaceae) (MAKHAN & EZZATPANAH 2011b).

Comments: *Mylabris (Eumylabris) cincta* ab. *lateripiuncta* KASZAB, 1957 (from Khorasan, Tehran) and *M. (Eumylabris) cincta* ab. *pseudocincta* KASZAB, 1957 (from Fars, Hormozgan, Kerman, Khorasan, Sistan & Baluchestan, Tehran) were reported on sugar-beet (MIRZAYANS 1970; MODARRES AWAL 1997, 2012). Additionally, *M. (Eumylabris) cincta* ab. *pseudocincta* was reported by KASZAB (1957, 1959, 1968b) from Hormozgan, Kerman and Sistan & Baluchestan, and by MANDL (1964) from Fars, Kerman and Sistan & Baluchestan. *M. cincta* ab. *mediocingulata* ab. nov. and *M. cincta* ab. *lateripiuncta* were reported from Sistan & Baluchestan by KASZAB (1957).

Mylabris minae MAKHAN & EZZATPANAH, 2011 is synonym to *Mylabris (Eumylabris) cincta* (ZHAO PAN and DEWANAND MAKHAN - personal communications).

***Mylabris (Eumylabris) cinctoides* KASZAB, 1957**

Mylabris cinctoides KASZAB, 1957: 55.

Distribution in Iran: Fars (MANDL 1964), Hormozgan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Kerman (KASZAB 1959; MANDL 1964), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Sistan & Baluchestan (KASZAB 1957 (NW Iranshahr); MANDL 1964; MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Endemic to Iran.

***Mylabris (Eumylabris) crocata* (PALLAS, 1781)**

?*Meloe lutea* PALLAS, 1773: 722; *Meloe crocata* PALLAS, 1781: 87; *Mylabris crocata*, BILLBERG, 1813: 67; *Mylabris lutea*, REICHE, 1865: (= *lutea* PALLAS?); *Mylabris decempunctata* m. *crocata*: SUMAKOV, 1915: 32; *Mylabris (Eumylabris) crocata*, KUZIN, 1954: 356.

Distribution in Iran: Isfahan, Khuzestan (GHAHARI et al. 2009 as *Mylabris 10-punctata* PETAGNA, 1787 and *Mylabris (Eumylabris) decempunctata* FABRICIUS, 1781), Tehran (SERRI et al. 2003, 2006), Northern provinces (MODARRES AWAL 1997, 2012 as *Mylabris crocata 10-punctata* FABRICIUS), Iran (no locality cited) (FARAHBAKHS 1961 as *M. crocata 10-punctata*).

General distribution: Armenia, Azerbaijan, Bulgaria, China, Germany, Greece, Hungary, Iran, Israel-Palestine, Jordan, Kazakhstan, Kyrgyzstan, Mongolia, Romania, Russia (Central European Territory, East Siberia, South European Territory, West Siberia), Syria, Tajikistan, Turkey, Ukraine, Uzbekistan.

Plant association in Iran: *Gossypium* sp. (Malvaceae) (Farahbakhsh 1961, Modarres Awal 1997 as *M. crocata 10-punctata*).

Comments: MIRZAYANS (1970) and MODARRES AWAL (1997) reported *Mylabris crocata* form *brunnea* ESCHERICH and *Mylabris crocata 10-punctata* Fabricius from Tehran and Iran (no locality cited), respectively. *M. decempunctata* FABRICIUS, 1792 (*decempunctata* = *10-punctata*) is synonym to *Mylabris fabricii* SUMAKOV, 1924 (BOLOGNA 2008).

***Mylabris (Eumylabris) fabricii* SUMAKOV, 1924**

Mylabris decimpunctata PETAGNA, 1787: 27; *Mylabris forti* MULSANT, 1857: 133; *Mylabris decempunctata*, SUMAKOV, 1915: 31; *Mylabris fabricii* SUMAKOV, 1924: 86; *Mylabris (Mylabris) (Mesolaevigata) decempunctata*, PARDO ALCAIDE, 1950: 67; *Mylabris (Eumylabris) fabricii*, KUZIN, 1954: 355.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris decempunctata signata*), Isfahan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Lorestan (SUMAKOV 1915 as *Mylabris decimpunctata* m. *incertepunctata* m. n.), Markazi (FARAJI et al. 2012), Mazandaran (KASZAB 1968b), Tehran (KASZAB 1957; MIRZAYANS 1970; AKSENTJEV 1985; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006), Northern provinces (MODARRES AWAL 1997, 2012 as *M. decempunctata* FABRICIUS, 1792).

General distribution: Albania, Armenia, Azerbaijan, Bulgaria, Egypt (Sinai), Georgia, Greece, Iran, Israel-Palestine, Italy, Jordan, Kazakhstan, Macedonia, Moldavia, Montenegro, Russia (Central European Territory, South European Territory), Serbia, Syria, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Plant association in Iran: Cotton (*Gossypium* sp. (Malvaceae)) (FARAHBAKHS 1961; MODARRES AWAL 1997 as *M. crocata 10-punctata*; MODARRES AWAL 2012).

Prey records: Predator of *Doclostaurus maroccanus* (THUNBERG, 1815), *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012 as *M. decempunctata*).

***Mylabris (Eumylabris) groschkei* KASZAB, 1957**

Mylabris (Eumylabris) groschkei KASZAB, 1957: 53.

Distribution in Iran: Bushehr, Kuhgiluyeh & Boyerahmad (SERRI 2015), Fars, Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI 2015), Hormozgan, Kerman, Kermanshah, Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Isfahan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; MOHAMMAD-MOMENI et al. 2016), Markazi (MOSLEMI et al. 2015), Sistan & Baluchestan (KASZAB 1957, 1968b (N Iranshahr), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006).

General distribution: Afghanistan, Iran.

***Mylabris (Eumylabris) magnoguttata iranica* KASZAB, 1957**

Mylabris (Eumylabris) magnoguttata iranica KASZAB, 1957: 56.

Distribution in Iran: Fars, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Isfahan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; MOHAMMAD-MOMENI et al. 2016), Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (MOSLEMI et al. 2015), Sistan & Baluchestan (KASZAB 1957 (NW Iranshahr); MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Endemic to Iran.

***Mylabris (Eumylabris) magnoguttata magnoguttata* (HEYDEN, 1881)**

Zonabris magnoguttata HEYDEN, 1881: 329; *Mylabris magnoguttata angelicae* REITTER, 1889: 121; *Zonabris magnoguttata aschabadensis* VOIGTS, 1902: 178; *Zonabris magnoguttata disjuncteguttata* PIC, 1919: 19; *Zonabris magnoguttata fasciculata* ESCHERICH, 1899: 108; *Zonabris magnoguttata heydeniana* DOKHTOUROFF, 1889: 145; *Zonabris magnoguttata margaritae* REITTER, 1889: 120.

Distribution in Iran: Golestan, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Afghanistan, China, Iran, Kazakhstan, Kyrgyzstan, Russia (South European Territory), Tajikistan, Turkmenistan, Uzbekistan.

***Mylabris (Eumylabris) posticalis* (DOKHTOUROFF, 1889)**

Zonabris posticalis DOKHTOUROFF, 1889: 136.

Distribution in Iran: East Azarbaijan, Fars, Hormozgan, Kerman, Kermanshah, Khuzestan, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Afghanistan, China, Iran, Kyrgyzstan, Pakistan, Uzbekistan.

Comments: *Mylabris (Eumylabris) posticalis* form *shushana* KASZAB was reported from Hormozgan, Kermanshah and Khuzestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Mylabris (Eumylabris) schrenkii* GEBLER, 1841**

Mylabris schrenki GEBLER, 1841: 374; *Zonabris reitteri* DOKHTOUROFF, 1889: 157.

Distribution in Iran: Golestan, Hormozgan, Sistan & Baluchestan

(MIRZAYANS 1970; MODARRES AWAL 1997 as *Mylabris cincta schrenki* GEBLER, 1841), Khorasan (FEKRAT & MODARESS AWAL 2012), Iran (no locality cited) (FARAHBAKHS 1961 as *M. cincta schrenki*).

General distribution: Afghanistan, China, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

Plant association in Iran: *Gossypium* sp. (Malvaceae) (FARAHBAKHS 1961; MODARRES AWAL 1997).

Subgenus *Mauritabris* PARDO ALCAIDE, 1969

***Mylabris (Mauritabris) damascena* REICHE, 1866**

Mylabris (Mauritabris) damascena REICHE, 1866: 634.

Distribution in Iran: Kermanshah, Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Mylabris tenebrosa* form *damascena* REICHE), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Egypt (Sinai), Iran, Iraq, Israel-Palestine, Jordan, Lebanon, Syria.

***Mylabris (Mauritabris) tenebrosa* LAPORTE DE CASTELNAU, 1840**

Mylabris tenebrosa LAPORTE DE CASTELNAU, 1840: 270; *Zonabris diverseluteonotata* PIC, 1953: 499; *Mylabris exuta* NORMAND, 1950: 81; *Zonabris mohtari* ESCALERA, 1910: 284; *Zonabris oberthuri* PIC, 1953: 498; *Zonabris pauloluteobifasciata* PIC, 1953: 499; *Zonabris postluteofasciata* PIC, 1921: 6; *Mylabris satanas* MADER, 1929: 108; *Zonabris septemnotata* PIC, 1953: 498; *Zonabris soufensis* PIC, 1921: 6; *Zonabris triluteofasciata* PIC, 1921: 6; *Zonabris uniluteofasciata* PIC, 1921: 6.

Distribution in Iran: "Perse" (SUMAKOV 1915), Guilan (GHAHARI et al. 2009), Kermanshah (MODARRES AWAL 1997, 2012).

General distribution: Algeria, Egypt, Libya, Morocco, Tunisia, Saudi Arabia.

Prey records: Predator of *Dociostaurus* spp. and *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Subgenus *Micrabris* KUZIN, 1954

***Mylabris (Micrabris) beckeri* ESCHERICH, 1890**

Mylabris beckeri ESCHERICH, 1890: 24; *Mylabris therondi* ROUBAL, 1932: 1.

Distribution in Iran: Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Russia (South European Territory).

***Mylabris (Mylabris) concolor* MARSEUL, 1870**

Mylabris concolor MARSEUL, 1870: 112; *Zonabris concolor*, ESCHERICH 1897: 44; *Mylabris (Mylabris) concolor*, KUZIN 1954: 354.

Distribution in Iran: Kerman (MANDL 1964), Kordestan (PAN & BOLOGNA 2014), Khorasan (KUZIN 1954), Tehran (MIRZAYANS 1970; MODARRES AWAL

1997, 2012), Iran (no locality cited) (BOLOGNA 1979, 2008; IABLOKOFF-KHNZORIAN 1983; SERRI et al. 2012).

General distribution: Armenia, Azerbaijan, Iran, Turkey, Turkmenistan.

***Mylabris (Micrabris) dokhtouroffi dokhtouroffi* (ESCHERICH, 1899)**

Zonabris dokhtouroffi ESCHERICH, 1899: 104; *Zonabris dokhtouroffi coalescens* VOIGTS, 1902: 178.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Tajikistan, Uzbekistan.

Comments: *Mylabris (Micrabris) dokhtouroffi* ab. *coalescens* VOIGTS, 1902 was reported from Khuzestan (KASZAB 1959), Ilam, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997).

***Mylabris (Micrabris) excisofasciata* (HEYDEN, 1883)**

Zonabris excisofasciata HEYDEN, 1883: 67.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, Iran, Kyrgyzstan, Turkmenistan, Uzbekistan.

Comments: MIRZAYANS (1970) and MODARRES AWAL (1997, 2012) recorded *Mylabris (Mesosulcata) excisofasciata* ab. *anticebimaculata* KASZAB, 1958 from Sistan & Baluchestan.

***Mylabris (Micrabris) externepunctata* FALDERMANN, 1832**

Mylabris externepunctata FALDERMANN, 1832: 208; *Mylabris taurusiensis* PIC, 1901: 77.

Distribution in Iran: "Perse" (SUMAKOV 1915), Tehran (KASZAB 1957).

General distribution: Armenia, Azerbaijan, Iran, Russia (South European Territory), Turkey.

***Mylabris (Micrabris) frolovi frolovi* FISCHER VON WALDHEIM, 1823**

Mylabris frolovi frolovi FISCHER VON WALDHEIM, 1823, pl. 40; *Mylabris frolovi confluens* FISCHER VON WALDHEIM, 1823: 227; *Mylabris frolovi deserta* SUMAKOV, 1929: 1; *Mylabris frolovi frolovi* GERMAR, 1824: 170 (homonym); *Mylabris frolovi obtecta* ESCHERICH, 1899: 108; *Zonabris frolovi sexguttata* PIC, 1947: 7; *Zonabris frolovi sodalis* HEYDEN, 1883: 65.

Distribution in Iran: Golestan, Mazandaran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; FEKRAT & MODARESS AWAL 2012), Tehran (AKSENTJEV 1985).

General distribution: Afghanistan, China, Iran, Kazakhstan, Kyrgyzstan, Russia (East Siberia, West Siberia), Tajikistan, Turkmenistan.

***Mylabris (Micrabris) furcimakula* SUMAKOV, 1915**

Mylabris flexuosa m. *furcimakula* SUMAKOV, 1915: 20; *Mylabris (Micrabris) furcimakula*, BOLOGNA, 1979: 147.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Iran. Russia (South European Territory), Turkey.

***Mylabris (Micrabris) geminata* FABRICIUS, 1798**

Mylabris geminata FABRICIUS, 1798: 120; *Mylabris grisescens* TAUSCHER, 1812: 145; *Mylabris (Micrabris) geminata*, KUZIN, 1954: 352.

Distribution in Iran: East Azarbaijan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

New materials: East Azarbaijan, Mazandaran (Nowakowski coll.).

General distribution: Armenia, Azerbaijan, China, Georgia, Iran, Kazakhstan, Kyrgyzstan, Russia (Central European Territory, South European Territory, West Siberia), Turkey, Ukraine.

***Mylabris (Micrabris) laeicollis* MARSEUL, 1870**

Mylabris laeicollis MARSEUL, 1870: 109; *Mylabris (Micrabris) laeicollis*, KUZIN 1954: 352; *Mylabris dejeani*, KASZAB, 1967: 540.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Albania, Armenia, Azerbaijan, Bosnia Herzegovina, Georgia, Greece, Iran, Kazakhstan, Macedonia, Turkey, Turkmenistan.

***Mylabris (Micrabris) mediorientalis* PAN & BOLOGNA, 2014**

Mylabris (Micrabris) mediorientalis PAN & BOLOGNA, 2014: 32.

Distribution in Iran: Fars, Khuzestan (SERRI 2015), Ilam, Mazandaran (PAN & BOLOGNA 2014).

General distribution: Israel-Palestine, Iran, Iraq, Jordan (PAN & BOLOGNA 2014).

***Mylabris (Micrabris) modesta elbursiensis* AKSENTJEV, 1985**

Mylabris modesta elbursiensis AKSENTJEV, 1985: 247.

Distribution in Iran: Tehran (AKSENTJEV 1985).

General distribution: Endemic to Iran.

***Mylabris (Micrabris) modesta modesta* (ESCHERICH, 1899)**

Zonabris modesta ESCHERICH, 1899: 99.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Iran, Turkey.

***Mylabris (Micrabris) sedilethorax* SUMAKOV, 1929**

Mylabris (Micrabris) sedilethorax SUMAKOV, 1929: 3.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Iran.

***Mylabris (Micrabris) tomentosa* (ESCHERICH, 1899)**

Zonabris tomentosa ESCHERICH, 1899: 99; *Zonabris externeundulata* PIC, 1919: 19; *Zonabris kulpensis* PIC, 1919: 18.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Iran, Turkey.

***Mylabris (Micrabris) unicolor* FALDERMANN, 1837**

Mylabris (Micrabris) unicolor FALDERMANN, 1837: 127.

Distribution in Iran: "Perse" (SUMAKOV 1915), Isfahan, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997; SERRI et al. 2003, 2006).

General distribution: Armenia, Azerbaijan, Iran, Turkey.

***Mylabris (Micrabris) undecimpunctata* FISCHER VON WALDHEIM, 1842**

Mylabris undecimpunctata FISCHER VON WALDHEIM, 1842: 17; *Zonabris septempunctata* PIC, 1901: 78.

Distribution in Iran: Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Afghanistan, China, Iran, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan.

Subgenus *Mylabris* FABRICIUS, 1775

***Mylabris (Mylabris) alpicola* PAN & BOLOGNA, 2014**

Mylabris (Mylabris) alpicola PAN & BOLOGNA, 2014: 15.

Distribution in Iran: Qazvin, Tehran (PAN & BOLOGNA 2014).

General distribution: Endemic to Iran.

***Mylabris (Mylabris) apiceguttata* PAN & BOLOGNA, 2014**

Mylabris guerini, MIRZAYANS 1970: 30 (nec CHEVROLAT 1840); *Mylabris (Mylabris) apiceguttata* PAN & BOLOGNA, 2014: 18.

Distribution in Iran: Kerman (PAN & BOLOGNA 2014), Khorasan (PAN & BOLOGNA 2014; KAMALI et al. 2016 as *Mylabris guerini*).

General distribution: Endemic to Iran.

Comments: *Mylabris guerini* was recorded as the biological control agent of *Alhagi pseudoalhagi* (Fabaceae) by KAMALI et al. (2016).

***Mylabris (Mylabris) apicenigra* SUMAKOV, 1915**

Mylabris quadripunctata apicenigra SUMAKOV 1915: 24; *Mylabris (Mylabris) apicenigra*, KUZIN 1954: 354.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris quadripunctata apicenigra*), Fars (MIRZAYANS 1970; MODARRES AWAL 1997; PAN & BOLOGNA 2014; SERRI 2015), Isfahan (MIRZAYANS 1970; MODARRES AWAL 1997; MOHAMMAD-MOMENI et al. 2016), Khorasan (FEKRAT & MODARESS AWAL 2012), Lorestan (SUMAKOV 1930; KUZIN 1954), Markazi (MOSLEMI et al. 2015), Mazandaran (KASZAB 1968b), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997; SERRI et al. 2003, 2006; PAN & BOLOGNA 2014), Iran (no locality cited) (SUMAKOV 1915; BOLOGNA 2008; SERRI et al. 2012).

General distribution: Iran, Turkey.

***Mylabris (Mylabris) barezensis* SERRI, PAN & BOLOGNA, 2012**

Mylabris (Mylabris) barezensis SERRI et al. 2012: 82.

Distribution in Iran: Kerman (SERRI et al. 2012; PAN & BOLOGNA 2014).

General distribution: Endemic to Iran.

***Mylabris (Mylabris) guerini* CHEVROLAT, 1840**

Mylabris guerini CHEVROLAT, 1840: 271; *Mylabris rubripennis* CHEVROLAT, 1840: 270 (uncertain synonymy); *Mylabris tricineta* var. *guerini*, REICHE, 1866: 635; *Mylabris variabilis* var. *guerini*, MARSEUL, 1870: 69; *Mylabris variabilis* var. *rubripennis*, GEMMINGER & HAROLD, 1870: 2145; *Mylabris quadripunctata tricineta* m. *guerini*, SUMAKOV, 1915: 24; *Mylabris quadripunctata* var. *guerini*, MADER, 1927: 858; *Mylabris quadripunctata* ab. *normandi* PIC 1936: 155; *Mylabris (Mylabris) guerini*, PARDO ALCAIDE, 1950: 75; *Zonabris variabilis* var. *lambaesis* PIC, 1953: 499.

Distribution in Iran: Hamadan (NIKHBAKHTZADEH & TIRGARI 2002a, b; NIKHBAKHTZADEH & EBRAHIMI 2008), Ilam, Kerman, Kermanshah, Khorasan, Kordestan, Mazandaran, Sistan & Baluchestan, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Algeria, Morocco, Tunisia.

***Mylabris (Micrabris) inculta* (ESCHERICH, 1899)**

Distribution in Iran: West Azarbaijan (SAKENIN et al. 2018).

General distribution: Armenia, Azerbaijan, "Caucasus", Syria, Turkey.

***Mylabris (Mylabris) mediorientalis* PAN & BOLOGNA, 2014**

Mylabris husseini, BOLOGNA, 1988: 30 (nec REDTENBACHER, 1850); *Mylabris (Mylabris) parumpicta*, BOLOGNA, 2008: 397 (in part) (nec HEYDEN, 1883); *Mylabris (Mylabris) mediorientalis* PAN & BOLOGNA, 2014: 32.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris husseini* Redt.), Ilam, Mazandaran (PAN & BOLOGNA 2014).

General distribution: Israel-Palestine, Iran, Iraq, Jordan, Lebanon (PAN & BOLOGNA 2014).

***Mylabris (Mylabris) olivieri* BILLBERG, 1813**

Mylabris olivieri BILLBERG, 1813: 71; *Mylabris caspia* MÉNÉTRIÉS, 1832: 206; *Mylabris grisescens*, REICHE, 1865: 638 (nec TAUSCHER, 1812); *Mylabris impar*, BAUDI DI SELVE, 1878: 375; *Zonabris impar*, HEYDEN et al., 1883: 144; *Zonabris impar* var. *impexa* ESCHERICH, 1899: 107; *Zonabris impar* var. *kopetensis* PIC, 1930: 2; *Mylabris olivieri* ab. *impexa*, KASZAB, 1941: 676; *Mylabris (Mylabris) olivieri*, KUZIN, 1953: 125.

Distribution in Iran: East Azarbaijan (MÉNÉTRIÉS 1832; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014), Golestan, Guilan, Lorestan (PAN & BOLOGNA 2014), Kerman (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Mazandaran (KASZAB 1968a, b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014), Markazi (FARAJI et al. 2012), Tehran (SERRI et al. 2003, 2006), West Azarbaijan (PAN & BOLOGNA 2014), Northern Iran (MÉNÉTRIÉS 1832; BOLOGNA 1991; PAN & BOLOGNA 2014), Iran (no locality cited) (PIC 1930; BOLOGNA 1979; KOLOV 2003; NICOLAEV & KOLOV 2005; BOLOGNA 2008; SERRI et al. 2012).

New materials: Qazvin, Semnan (H. Ghahari collection).

General distribution: Armenia, Azerbaijan, Georgia, Greece, Iran, Kazakhstan, Macedonia, Romania, Russia (Central European Territory, South European Territory), Tajikistan, Turkey, Ukraine.

***Mylabris (Mylabris) parumpicta* (HEYDEN, 1883)**

Zonabris parumpicta HEYDEN, 1883: 353; *Mylabris parumpicta*, BEAUREGARD, 1890: 533; *Mylabris quadripunctata parumpicta*, SUMAKOV, 1915: 23; *Mylabris (Mylabris) parumpicta*, KUZIN, 1954: 355.

Distribution in Iran: "Perse" (SUMAKOV 1915 as *Mylabris quadripunctata parumpicta*), Golestan (HEYDEN 1883; SUMAKOV 1930; SERRI & BOLOGNA 2018a), Isfahan (SERRI & BOLOGNA 2018a), Kermanshah (MODARRES AWAL 1997, 2012), Lorestan (SUMAKOV 1930), Tehran (SERRI & BOLOGNA 2018a), Northern Iran (SUMAKOV 1915), Iran (no locality cited) (BEAUREGARD 1890; MADÈR 1927; KUZIN 1954; BOLOGNA 2008; SERRI et al. 2012; PAN & BOLOGNA 2014).

General distribution: Iran, Iraq, Israel-Palestine, Jordan, Syria, "Turkestan".

Prey records: Predator of *Doclostaurus* spp. and *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012).

***Mylabris (Mylabris) pseudoemiliae* PAN & BOLOGNA, 2014**

Mylabris (Mylabris) pseudoemiliae PAN & BOLOGNA, 2014: 37.

Distribution in Iran: Isfahan (PAN & BOLOGNA 2014).

General distribution: Endemic to Iran.

***Mylabris (Mylabris) quadripunctata* (LINNAEUS, 1767)**

Meloe quadripunctata LINNAEUS, 1767: 680; *Mylabris decempunctata* FABRICIUS, 1781: 331; *Meloe melanura* PALLAS, 1782: 86; *Mylabris quadripunctata*, FABRICIUS, 1787: 217; *Mylabris melanura*, PETAGNA, 1787: 27; *Mylabris octopunctata* OLIVIER, 1811: 95; *Mylabris adamsii* FISCHER VON WALDHEIM, 1823: 224; *Mylabris fasciatopunctata* ADAMS, in FISCHER VON WALDHEIM, 1823: 224; *Mylabris armeniaca* FALDERMANN, 1837: 125; *Mylabris floralis* var. *adamsii*, DEJEAN, 1837: 244; *Mylabris mutans* var. *quadripunctata*, GAUBIL, 1849: 230; *Mylabris hispanica* MOTSCHULSKY, 1849: 132; *Mylabris husseini* REDTENBACHER, 1850: 49; *Mylabris maldinesi* CHEVROLAT, 1865: 393; *Mylabris quadripunctata* var. *adamsii*, MARSEUL, 1870: 71; *Mylabris quadripunctata* var. *maldinesi*, MARSEUL, 1870: 73; *Mylabris variabilis* var. *armeniaca*, MARSEUL, 1872: 492; *Mylabris quadripunctata* var. *melanura*, BAUDI DI SELVE, 1878: 1163; *Zonabris quadripunctata*, HEYDEN, 1881: 152; *Zonabris variabilis* var. *armeniaca*, HEYDEN, 1881: 152; *Zonabris quadripunctata* var. *adamsii*, HEYDEN & KRAATZ, 1883: 356; *Zonabris quadripunctata* var. *maldinesi*, HEYDEN et al., 1883: 143; *Zonabris quadripunctata* var. *melanura*, HEYDEN et al., 1883: 143; *Zonabris armeniaca*, REITTER, 1889: 120; *Mylabris quadripunctata* var. *fasciatopunctata*, BEAUREGARD, 1890: 534; *Mylabris quadripunctata* var. *hispanica*, BEAUREGARD, 1890: 534; *Mylabris quadripunctata* var. *octopunctata*, BEAUREGARD, 1890: 534; *Mylabris quadripunctata* var. *tetraspilota* WELLMAN, 1910: 23; *Mylabris quadripunctata* var. *antefasciata* SUMAKOV, 1913: 304; *Mylabris quadripunctata* var. *vareillesi* CHOBOUT, 1914: 280; *Mylabris quadripunctata* ab. *adamsii*, MADER, 1927: 858; *Mylabris quadripunctata* ab. *armeniaca*, MADER, 1927: 858; *Mylabris quadripunctata* ab. *maldinesi*, MADER, 1927: 858; *Mylabris quadripunctata* ab. *tetraspilota*, MADER, 1927: 858; *Mylabris quadripunctata* ab. *chobautiana* Sumakov, 1930: 37; *Mylabris variabilis* ab.

armeniaca, MAGISTRETTI, 1943: 48; *Mylabris (Mylabris) quadripunctata*, PARDO ALCAIDE, 1950: 75; *Mylabris (Mylabris) quadripunctata mesoasiatica* KUZIN, 1953: 124; *Mylabris (Sphenabris) husseini*, KUZIN, 1954: 362; *Mylabris (Mylabris) quadripunctata ab. adamsii*, KASZAB, 1968: 759; *Mylabris (Mesopunctata) quadripunctata armeniaca*, AXENTIEV, 1985: 246; *Mylabris (Mesopunctata) quadripunctata*, SADYKOV, 1989: 26; *Mylabris (Mylabris) quadripunctata quadripunctata*, BOLOGNA, 1991: 226; *Mylabris rishwani* MAKHAN, 2012: 1.

Distribution in Iran: Ardabil (SUMAKOV 1930), Chaharmahal & Bakhtiari, Khuzestan, Kohgiluyeh & Boyerahmad (SERRI 2015), East Azarbaijan (KUZIN 1953; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014), Fars (KASZAB 1968b; PAN & BOLOGNA 2014; SERRI 2015), Golestan, Guilan, Hamadan, West Azarbaijan (PAN & BOLOGNA 2014), Kermanshah, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Isfahan (FARAHBAKHS 1961; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014; MOHAMMAD-MOMENI et al. 2016), Khorasan (FEKRAT & MODARESS AWAL 2012; PAN & BOLOGNA 2014), Markazi (MOSLEMI et al. 2015), Mazandaran (KASZAB 1968b as *M. quadripunctata ab. adamsii*; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014), Semnan (MAKHAN 2012d as *Mylabris rishwani*), Tehran (KASZAB 1957; MIRZAYANS 1970; AXENTIEV 1985 as *M. quadripunctata armeniaca*; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006; PAN & BOLOGNA 2014), Iran (no locality cited) (DEJEAN 1837; GEMMINGER & HAROLD 1870; BEAUREGARD 1890; BORCHMANN 1917; MADĚR 1927; SUMAKOV 1930; HORION 1956; MARCUZZI & TURCHETTO LAFISCA 1981; IABLOKOFF-KHNZORIAN 1983; AKSENTIEV 1985; PRIPISNOVA 1987; SADYKOV 1989; BOLOGNA 2008; SERRI et al. 2012).

New materials: Alborz, Qom (H. Ghahari collection).

General distribution: Afghanistan, Albania, Armenia, Azerbaijan, Bulgaria, China, France, Georgia, Greece, Iran, Iraq, Israel-Palestine, Italy, Jordan, Kazakhstan, Kyrgyzstan, Macedonia, Romania, Russia (Central European Territory, East Siberia, South European Territory, West Siberia), Syria, Tajikistan, Turkmenistan, Turkey, Ukraine, Uzbekistan.

Plant association in Iran: *Hordeum vulgare* (Poaceae); *Cucumis sativus* (Cucurbitaceae); *Cucumis melo* (Cucurbitaceae); *Sinapis* sp. (Brassicaceae); *Glycine max* (Fabaceae); *Citrullus lanatus* (Cucurbitaceae); *Triticum* sp (Poaceae) (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012).

Prey records: Predator of *Dociostaurus* spp. and *Calliptamus* spp. (Orthoptera: Acrididae) and other grasshoppers (MODARRES AWAL 1997, 2012).

Comments: *Mylabris (Mylabris) quadripunctata* form *armeniaca* FALDERMANN, 1837 (from East Azarbaijan, Isfahan, Lorestan and Tehran) and *Mylabris (Mylabris) quadripunctata* form *della* SUMAKOV (from East Azarbaijan) were reported from Iran (MIRZAYANS 1970; MODARRES AWAL 1997).

MAKHAN (2012d) described *Mylabris rishwani* from Iran (on the flowers of *Alhagi maurorum* MEDIKUS (Fabaceae)) which according to PAN & BOLOGNA (2014), this species is synonym to *Mylabris quadripunctata* upon the photos of body and male genitalia.

***Mylabris (Mylabris) schreibersi* REICHE, 1866**

Mylabris terminata CHEVROLAT, 1840: 276 *nomen praeoccupatum*; *Mylabris schreibersi* REICHE,

1866: 636; *Zonabris schreibersi*, HEYDEN, 1887: 443; *Mylabris (Mylabris) schreibersi*, PARDO ALCAIDE, 1950: 76; *Mylabris schreibersi* ab. *parumpunctata* MAGISTRETTI, 1943: 35; *Mylabris schreibersi* ab. *unifasciata* MAGISTRETTI, 1943: 35; *Mylabris (Eumylabris) schreibersi*, KUZIN, 1954: 356; *Mylabris schreibersi* ab. *unifasciatella* KASZAB, 1958: 190.

Distribution in Iran: Hamadan (NIKHBAKHTZADEH & TIRGARI 2002a, b).

General distribution: Algeria, Italy, Morocco, Tunisia.

***Mylabris (Mylabris) variabilis* (PALLAS, 1781)**

Meloe variabilis PALLAS, 1781: 81; *Mylabris variabilis*, OLIVIER, 1795: 10; *Mylabris lacera* FISCHER, 1827: 6; *Mylabris mutans* GUÉRIN-MÉNEVILLE, 1837: 554; *Mylabris hypocrita* MULSANT, 1857: 125; *Mylabris similis* MULSANT, 1857: 125; *Mylabris variabilis* var. *lacera*, MARSEUL, 1870: 70; *Mylabris variabilis* var. *mutabilis*, MARSEUL, 1870: 70; *Mylabris variabilis* var. *similis*, GEMMINGER & HAROLD, 1870: 2145; *Mylabris variabilis* var. *sturmi* BAUDI DI SELVE, 1878: 364; *Mylabris variabilis* var. *disrupta* BAUDI DI SELVE, 1878: 1160; *Zonabris variabilis*, HEYDEN, 1881: 152; *Zonabris variabilis* var. *mutabilis*, REITTER, 1906: 448; *Zonabris variabilis* var. *disrupta*, REITTER, 1906: 448; *Zonabris variabilis* var. *lacera*, REITTER, 1906: 448; *Zonabris erivanica* Pic, 1901: 77; *Zonabris variabilis* var. *sturmi*, REITTER, 1906: 448; *Mylabris variabilis* ab. *disrupta*, MADER, 1927: 857; *Mylabris variabilis* var. *erivanica*, MADER, 1927: 857; *Mylabris variabilis* ab. *lacera*, MADER, 1927: 857; *Mylabris variabilis* ab. *mutabilis*, MADER, 1927: 857; *Mylabris variabilis* ab. *similis*, MADER, 1927: 857; *Mylabris variabilis* ab. *sturmi*, MADER, 1927: 857; *Mylabris (Zonabris) variabilis*, KANTARDJIEVA, 1929: 37; *Zonabris variabilis* ab. *mariei* PIC, 1939: 22; *Mylabris variabilis* ab. *guerini* MAGISTRETTI, 1943: 34 (nec CHEVROLAT 1840); *Mylabris variabilis* ab. *leonii* MAGISTRETTI, 1943: 35; *Mylabris (Mylabris) variabilis*, PARDO ALCAIDE, 1950: 76; *Mylabris variabilis* ab. *medioluteoabrupta* KASZAB, 1956: 151; *Mylabris variabilis* ab. *medioexterneconjuncta* KASZAB, 1956: 152; *Mylabris variabilis* ab. *apicenigroconjuncta* KASZAB, 1956: 152; *Mylabris variabilis* ab. *medioluteobipunctata* KASZAB, 1956: 152; *Mylabris variabilis* ab. *medioluteotripunctata* KASZAB, 1956: 153; *Mylabris variabilis* ab. *italiana* KASZAB, 1958: 190; *Mylabris variabilis lacera*, MODARRES AWAL, 1997: 182.

Distribution in Iran: Alborz, Isfahan, Lorestan (PAN & BOLOGNA 2014), East Azarbaijan, Kermanshah, Siatan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Fars (KASZAB 1968a), Golestan (KASZAB 1957, 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014), Hamadan (NIKHBAKHTZADEH & TIRGARI 2002a, b), Khorasan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; FEKRAT & MODARESS AWAL 2012; PAN & BOLOGNA 2014), Khuzestan (SERRI 2015), Markazi (FARAJI et al. 2012), Mazandaran (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012; PAN & BOLOGNA 2014), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006; PAN & BOLOGNA 2014), Iran (no locality cited) (BAUDI DI SELVE 1878; KUZIN 1953; IABLOKOFF-KHNZORIAN 1983; KOLOV 2003; BOLOGNA 2008; SERRI et al. 2012).

New materials: Ardabil, Semnan (H. Ghahari collection).

General distribution: Afghanistan, Albania, Armenia, Austria, Azerbaijan, Bulgaria, Croatia, Czech Republic, France, Georgia, Greece, Hungary, Iran, Israel-Palestine, Italy, Jordan, Kazakhstan, Macedonia, Moldavia, Montenegro, Portugal, Romania, Russia (Central European Territory, East Siberia, South European Territory, West Siberia), Serbia, Slovakia, Slovenia, Spain, Switzerland, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Plant association in Iran: *Beta vulgaris* (Amaranthaceae) (MODARRES AWAL 1997, 2012).

C o m m e n t s : *Mylabris (Mylabris) variabilis lacera* FISCHER VON WALDHEIM, 1827 was reported from Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012). Records of *Mylabris (Mylabris) variabilis* from Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012) is doubtful (PAN & BOLOGNA 2014).

Subgenus *Zitunabris* PARDO ALCAIDE, 1969

***Mylabris (Zitunabris) atrofasciata* (PIC, 1921)**

Zonabris atrofasciata PIC, 1921: 4.

D i s t r i b u t i o n i n I r a n : "Perse" (PIC 1921), Fars, Yazd (BOLOGNA 2009).

G e n e r a l d i s t r i b u t i o n : Endemic to Iran.

***Mylabris (Zitunabris) interrupta* OLIVIER, 1801**

Mylabris interrupta OLIVIER, 1801: 93; *Mylabris excellens* REDTENBACHER, 1850: 49; *Zonabris mediounifasciata* PIC, 1920: 13; *Zonabris subunifasciata* PIC, 1920: 13.

D i s t r i b u t i o n i n I r a n : Bushehr, Kuhgiluyeh & Boyerahmad (SERRI 2015), Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; BOLOGNA 2009), Lorestan (BOLOGNA 2009).

G e n e r a l d i s t r i b u t i o n : Egypt, Iran.

***Mylabris (Zitunabris) suturalis* (PIC, 1898)**

Zonabris suturalis PIC, 1898: 2; *Zonabris morgani* PIC, 1920: 12.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (BOLOGNA 2008, 2009).

G e n e r a l d i s t r i b u t i o n : Iran, Syria, Turkey.

***Mylabris (Zitunabris) syriaca syriaca* KLUG, 1845**

Mylabris syriaca KLUG, 1845: tab. XXXII, fig. 1; *Mylabris intersecta* REICHE & SAULCY, 1857: 274; *Zonabris syriaca*, OERTZEN, 1866: 264; *Mylabris syriaca*, MARSEUL, 1872: 464-465; *Zonabris syriaca* var. *leseleuci* PIC, 1898: 2; *Mylabris (Eumylabris) syriaca*, KUZIN, 1954: 356.

D i s t r i b u t i o n i n I r a n : "Persie" (SUMAKOV 1915 as *Mylabris syriaca* and *M. sanguinosa*), Fars, Kermanshah, Lorestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (BOLOGNA 2008, 2009).

G e n e r a l d i s t r i b u t i o n : Armenia, Azerbaijan, Egypt (Sinai), Greece, Iran, Iraq, Israel-Palestine, Jordan, Lebanon, Syria, Turkey.

C o m m e n t s : *Mylabris (Zitunabris) syriaca* form *leseleuci* PIC, 1898 and *Mylabris (Zitunabris) syriaca* form *smyrnensis* ESCHERICH, 1899 were reported from Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Genus *Semenovilia* KUZIN, 1954

Type species: *Mylabris fischeri* GEBLER, 1847, by monotypy. [Single species]

***Semenovilia fischeri* (GEBLER, 1847)**

Mylabris fischeri GEBLER, 1847: 502; *Mylabris tauscheri* FISCHER VON WALDHEIM, 1844: 130 (homonym).

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, China, Iran, Kazakhstan, Russia (East Siberia, South European Territory, West Siberia), Turkmenistan, Uzbekistan.

Tribe Meloini GYLLENHAL, 1810

Genus Meloe LINNAEUS, 1758

Proscarabaeus SCHRANK, 1781; type species: *Meloe proscarabaeus* LINNAEUS, 1758, by absolute tautonymy. *Melittophagus* KIRBY, 1818; type species: *Pediculus melittae* KIRBY, 1802 (= *Meloe violaceus* MARSHAM, 1802) by original designation. *Triungulinus* DUFOUR, 1828; type species: *triungulinus andrenatarum* DUFOUR, 1828, by monotypy. *Cnestocera* THOMSON, 1859; type species: *Meloe proscarabaeus* LINNAEUS, 1758, by original designation. *Treiodous* DUGÈS, 1869; type species: *Treiodus barranci* DUGÈS, 1869 (currently considered as subgenus [PINTO AND SELANDER, 1970; BOLOGNA, 1991]). *Lampromeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe variegatus* DONOVAN, by subsequent designation. *Lasiomeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe olivieri* CHEVROLAT, 1833, by monotypy. *Meloegonius* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe cicatricosus* LEACH, 1815, by subsequent designation (AKSENTIEV, 1988). *Coelomeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe tuccius* ROSSI, 1792, by monotypy. *Taphromeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe erythrocnemus* PALLAS, by monotypy. *Chiromeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe nigropilosellus* REITTER, 1900, by monotypy. *Listromeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe hungarus* SCHRANK, 1776, by monotypy. *Micromeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe uralensis* PALLAS, 1773, by subsequent designation (AKSENTIEV, 1988). *Meloenellus* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe nigropuberulus* REITTER, 1890, by subsequent designation (AKSENTIEV, 1988). *Eurymeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe brevicollis* PANZER, 1793, by subsequent designation (PINTO & SELANDER, 1970). *Mesomeloe* REITTER, 1911 (as subgenus; currently valid); type species: *Meloe sulcicollis* KRAATZ, 1882, by subsequent designation (AKSENTIEV, 1988). *Afromeloe* SCHMIDT, 1913 (as subgenus; currently valid); type species: *Meloe angulatus* LEACH, 1815, by subsequent designation (AKSENTIEV, 1988). *Trapezimeloe* PLIGINSKIJ, 1935 [as subgenus; =*Meloe* (*Micromeloe*) REITTER, 1911]; type species: *Meloe conradti* HEYDEN, 1888, by monotypy. *Desertimeloe* KASZAB, 1964 (as subgenus; currently valid); type species: *Meloe centripubens* REITTER, 1897, by original designation. *Anchomeloe* IABLOKOV-KHNZORIAN, 1983 (as section of the nominate subgenus, =*Meloe* [*Treiodous*] DUGÈS, 1869); type species: *Meloe autumnalis* OLIVER, 1795, by monotypy. *Alveomeloe* PRISPINOVA, 1987 (as subgenus; currently valid); type species: *Meloe tadzhikistanicus* PRISPINOVA, 1987, by original designation.

Type species: *Meloe proscarabaeus* LINNAEUS, 1758, by subsequent designation (LATREILLE). [Ca.155 species (ca.130 in the Old World)]

Subgenus Coelomeloe REITTER, 1911

***Meloe* (*Coelomeloe*) *tuccius tuccius* ROSSI, 1792**

Meloe tuccius ROSSI, 1792: 283; ?*Meloe sulcicollis* LATREILLE, 1804: 391; *Meloe punctatus* LEACH, 1815: 44, 245; *Meloe ruficornis* BALBI, 1897: 94; *Meloe* (*Coelomeloe*) *tuccius*, REITTER, 1911: 389.

Distribution in Iran: Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (MOSLEMI et al. 2015), Iran (no locality cited) (BOLOGNA 2008, 2009).

General distribution: Afghanistan, Albania, Algeria, Armenia, Austria,

Azerbaijan, Bosnia Herzegovina, Bulgaria, China, Croatia, Cyprus, Egypt, France, Greece, Hungary, Iran, Israel-Palestine, Jordan, Italy, Kazakhstan, Libya, Malta, Montenegro, Morocco, Portugal, Romania, Russia (South European Territory), Serbia, Slovakia, Spain, Syria, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Subgenus *Eurymeloe* REITTER, 1911

***Meloe (Eurymeloe) brevicollis brevicollis* PANZER, 1793**

Meloe brevicollis PANZER, 1793: 15; *Meloe cephalotes* CURTIS, 1829: 38; *Meloe puncticollis* MOTSCHULSKY, 1873: 46; *Meloe splendens* ESCHERICH, 1889: 105; *Meloe (Eurymeloe) brevicollis*, REITTER, 1911: 391; *Meloe aestivus* STEVEN i.l.; *Meloe crassicollis* STEVEN i.l.; *Meloe laticollis* BESSER i.l.; ?*Meloe crassicornis* BONELLI i.l.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (BOLOGNA 2008; MONTALTO & BOLOGNA 2011).

G e n e r a l d i s t r i b u t i o n : Afghanistan, Albania, Armenia, Austria, Azerbaijan, Belgium, Bosnia Herzegovina, Bulgaria, Byelorussia, China, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Jordan, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Macedonia, Moldavia, Mongolia, The Netherlands, North Korea, Norway, Poland, Portugal, Romania, Russia (Central European Territory, East Siberia, Far East, North European Territory, South European Territory, West Siberia), Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Ukraine.

***Meloe (Eurymeloe) brevicollis mistaniensis* AKSENTJEV, 1985**

Meloe brevicollis mistaniensis AKSENTJEV, 1985: 248.

D i s t r i b u t i o n i n I r a n : East Azarbaijan (AKSENTJEV 1985).

G e n e r a l d i s t r i b u t i o n : Azerbaijan, Iran.

***Meloe (Eurymeloe) frontalis* REITTER, 1905**

Meloe (Eurymeloe) frontalis REITTER, 1905: 245.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (REITTER 1905; BOLOGNA 2008).

G e n e r a l d i s t r i b u t i o n : Endemic to Iran.

***Meloe (Eurymeloe) glazunovi* PLIGINSKIJ, 1910**

Meloe (Eurymeloe) glazunovi PLIGINSKIJ, 1910: 171.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (BOLOGNA 2008).

G e n e r a l d i s t r i b u t i o n : Afghanistan, Armenia, Greece, Iran, Kazakhstan, Kyrgyzstan, Russia (South European Territory), Tajikistan, "Transcaucasia", Turkey, Turkmenistan, Ukraine.

***Meloe (Eurymeloe) kandaharicus* KASZAB, 1958**

Meloe (Eurymeloe) kandaharicus KASZAB, 1958: 302.

D i s t r i b u t i o n i n I r a n : Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, Iran.

***Meloe (Eurymeloe) mathiesseni* REITTER, 1905**

Meloe (Eurymeloe) mathiesseni REITTER, 1905: 245.

Distribution in Iran: Iran (no locality cited) (REITTER 1905; BOLOGNA 2008).

General distribution: Endemic to Iran.

***Meloe (Eurymeloe) mediterraneus* MÜLLER, 1925**

?*Meloe bilineatus* ARAGONA, 1830: 20; *Meloe rugosus* (in part) LEONI, 1907: 268 (nec MARSHAM, 1802); *Meloe mediterraneus* MÜLLER, 1925: 22, 24; *Meloe (Eurymeloe) mediterraneus*, PORTA, 1934: 37; *Meloe adriaticus* MÜLLER i.l.

Distribution in Iran: East Azarbaijan, Golestan (KASZAB 1968b), Iran (no locality cited) (BOLOGNA 2008, 2009; MONTALTO & BOLOGNA 2011).

General distribution: Albania, Algeria, Armenia, Bosnia Herzegovina, Bulgaria, Croatia, Egypt, France, Great Britain, Greece, Hungary, Iran, Israel-Palestine, Italy, Libya, Malta, Montenegro, Morocco, Portugal, Serbia, Slovakia, Spain, "Transcaucasia", Tunisia, Turkey.

***Meloe (Eurymeloe) murinus* BRANDT & ERICHSON, 1832**

Distribution in Iran: Fars (KASZAB 1968b).

General distribution: Algeria, Greece, Italy, Libya, Morocco, Spain, Tunisia (BOLOGNA 2008), Iran, Iraq, Syria (KASZAB 1968b).

***Meloe (Eurymeloe) primulus* SEMENOV, 1903**

Meloe (Eurymeloe) primulus SEMENOV, 1903: 356.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Turkmenistan.

***Meloe (Eurymeloe) rugosus* MARSHAM, 1802**

Meloe rugosus MARSHAM, 1802: 483; *Meloe autumnalis* LEACH, 1815: 40 (nec OLIVIER, 1792); *Meloe punctatus* CURTIS, 1829: tab. 279; ?*Meloe rugulosus* BRULLÉ, 1832: 230; *Meloe rugosus*, BRANDT & ERICHSON, 1832: 126 (in part); *Meloe rugosus* var. *abdominalis* ESCHERICH, 1890: 89; *Meloe (Eurymeloe) rugosus*, REITTER, 1911: 391.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, Albania, Armenia, Austria, Azerbaijan, Belgium, Bosnia Herzegovina, Bulgaria, Croatia, Czech Republic, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Kazakhstan, Macedonia, Montenegro, The Netherlands, Poland, Romania, Russia (Central European Territory, South European Territory), Serbia, Slovakia, Slovenia, Spain, Switzerland, Syria, Tajikistan, Ukraine.

***Meloe (Eurymeloe) scabriusculus* BRANDT & ERICHSON, 1832**

Meloe scabriusculus BRANDT & ERICHSON, 1832: 125; *Meloe semipunctatus* KRYNICKI, 1832: 140; *Meloe (Eurymeloe) scabriusculus*, REITTER, 1911: 391; *Meloe laticollis* MEG. i.l.

Material examined: West Azarbaijan province, Mahabad, 36°46'N 45°44'E, 1366 m, 2 ex., 17.ix.2010. New record for Iran.

General distribution: Albania, Austria, Bosnia Herzegovina, Bulgaria, "Caucasus", Croatia, Czech Republic, France, Germany, Greece, Hungary, Italy, Kazakhstan, Macedonia, Montenegro, Poland, Romania, Russia (Central European Territory, East Siberia, South European Territory), Serbia, Slovakia, Slovenia, Switzerland, Turkey, Ukraine, Uzbekistan.

Subgenus *Lampromeloe* REITTER, 1911

***Meloe (Lampromeloe) cavensis* PETAGNA, 1819**

Meloe cavensis PETAGNA, 1819: 40; *Meloe purpurascens*, GERMAR, 1834: 12; *Meloe sardous* GENÉ, 1836: 198; *Meloe aeneus* LAPORTE DE CASTELNAU, 1840: 278; *Meloe latreillei* MARSEUL, 1867: 89; ?*Meloe specularis* GREDLER, 1877: 518; *Meloe (Lampromeloe) cavensis*, REITTER, 1911: 388; *Meloe aeruginosa* STEVEN I.; ?*Meloe stellata* PLIGINSKIJ, 1923: 143.

Distribution in Iran: Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARESS AWAL 1997, 2012), Khuzestan (MIRZAYANS 1970; MODARESS AWAL 1997, 2012; SERRI 2015), Lorestan (DI GIULIO et al. 2014), Western Iran (no locality cited) (BOLOGNA 2008, 2009; MONTALTO & BOLOGNA 2011).

General distribution: Algeria, Cyprus, Egypt, France, Greece, Iran, Iraq, Israel-Palestine, Italy, Jordan, Lebanon, Libya, Malta, Morocco, Portugal, Spain, Syria, Tunisia, Turkey.

Comments: Predator of *Anthophora nigrocincta* LEPELETIER, 1841 and *A. pennata* (LEPELETIER, 1841) (Hymenoptera: Apidae) (DI GIULIO et al. 2014).

***Meloe (Lampromeloe) variegatus variegatus* DONOVAN, 1793**

Meloe variegatus DONOVAN, 1793: 81; *Meloe majalis* FABRICIUS, 1775: 259 (nec LINNAEUS, 1758); *Meloe scabrosus* MARSHAM, 1802: 483; *Meloe (Lampromeloe) variegatus*, REITTER, 1911: 388; *Meloe scabrosus* ILLIGER I.L.

Distribution in Iran: Chaharmahal & Bakhtiari, Guilan, Hamadan, West Azarbaijan, Zanjan (TAHMASEBI & ESMAILI 1991; MODARRES AWAL 1997, 2012), East Azarbaijan (AKSENTJEV 1985), Kuhgiluyeh & Boyerahmad (SERRI 2015), Khorasan (FEKRAT & MODARESS AWAL 2012), Markazi (MOSLEMI et al. 2015), Iran (no locality cited) (BOLOGNA 2008; DI GIULIO et al. 2014).

General distribution: Afghanistan, Algeria, Armenia, Austria, Azerbaijan, Belgium, Bosnia Herzegovina, Bulgaria, Byelorussia, Croatia, Czech Republic, Denmark, France, Great Britain, Germany, Georgia, Greece, Hungary, Iran, Italy, Jordan, Kazakhstan, Kyrgyzstan, Lebanon, Lithuania, Montenegro, Morocco, The Netherlands, Poland, Romania, Russia (Central European Territory, East Siberia, South European Territory, West Siberia), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine.

Plant association in Iran: *Ranunculus acris* (Ranunculaceae), *Pisum* sp. (Fabaceae), *Taraxacum officinale* (Asteraceae) (MODARRES AWAL 1997).

Prey records: Ectoparasite of honeybee (TAHMASEBI & ESMAILI 1991; SHAROUI 1996; MODARRES AWAL 1997, 2012; AL-FAYED 2016), and *Anthophora femorata* (OLIVIER, 1789) (Hymenoptera: Apidae) (DI GIULIO et al. 2014).

Subgenus *Lasiomeloe* REITTER, 1911

***Meloe (Lasiomeloe) olivieri* CHEVOLAT, 1833**

Meloe olivieri CHEVOLAT, 1833: tab. 57; *Meloe (Lasiomeloe) olivieri*, RETTER, 1911: 389.

Distribution in Iran: Iran (no locality cited) (MIRZAYANS 1970; MODARESS AWAL 1997, 2012; BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Egypt, Iraq, Jordan, Syria, Turkey, Turkmenistan.

Subgenus *Listromeloe* REITTER, 1911

***Meloe (Listromeloe) hungarus* SCHRANK, 1776**

Meloe hungarus SCHRANK, 1776: 71; *Meloe limbatus* FABRICIUS, 1801: 588; *Meloe marginatus* TAUSCHER, 1812: 152; *Meloe (Listromeloe) hungarus*, REITTER, 1911: 390.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Austria, Bulgaria, "Caucasus", Croatia, Czech Republic, France, Germany, Greece, Hungary, Iran, Iraq, Israel-Palestine, Jordan, Macedonia, Montenegro, Romania, Russia (South European Territory), Serbia, Slovakia, Syria, "Transcaucasia", Turkey, Ukraine.

Subgenus *Meloe* LINNAEUS, 1758

***Meloe (Meloe) proscarabaeus proscarabaeus* LINNAEUS, 1758**

Meloe proscarabaeus LINNAEUS, 1758: 419; *Meloe punctata* FABRICIUS, 1792: 518 (nec FABRICIUS, 1801); *Meloe tectus* PANZER, 1793: 14; *Meloe atratus* MEYER, 1793: 15; *Meloe brunsvicensis* MEYER, 1793: 25; *Meloe volgensis* TAUSCHER, 1812: 148; *Meloe incertus* TAUSCHER, 1812: 149; *Meloe rugipennis* MANNERHEIM, 1825: 31; *Triungulinus andrenatarum* DUFOUR, 1828: 64; *Meloe cyanella* BRULLÉ, 1832: 229, 230; *Meloe rugicollis* STEPHENS, 1832: 66; *Meloe vulgaris* STEPHENS, 1832: 66; *Meloe megacephalus* FISCHER V. WALDHEIN., 1842: 27; *Meloe cyaneus*, DEJEAN, i.l.; *Cnestocera proscarabaeus*, THOMSON, 1859: 27; *Meloe pannonicus* ZIEGLER i.l.; *Meloe undulatus* FRIVALDKSDZKY i.l.; *Meloe exaratus* FALDERMANN i.l.; *Meloe grallicaus* DEJEAN i.l.; *Meloe tauricus* DEJEAN i.l.; *Meloe crispatus* FAIRMAIRE, 1884: 173; *Meloe simplicicornis* ESCHERICH, 1889: 105, 110; *Meloe proscarabaeus* var. *undulatus* BAUDI DI SELVE, 1878: 351; *Meloe proscarabaeus* var. *cyanellus*, BEAUREGARD, 1890: 481-482; *Meloe (Proscarabaeus) proscarabaeus*, WELLMAN, 1910: 392; *Meloe (Meloe) proscarabaeus*, MACSWAIN, 1956: 97.

Distribution in Iran: Chaharmahal & Bakhtiari, East Azarbaijan, Hamadan, Zanjan (MIRZAYANS 1970; TAHMASEBI & ESMAILI 1991; TAHMASEBI & KHANJANI 1995; MODARESS AWAL 1997, 2012), Fars, Golestan, Kermanshah (MIRZAYANS 1970; MODARESS AWAL 1997, 2012), Guilan (KASZAB 1968b), Markazi (MOSLEMI et al. 2015), Khorasan (FEKRAT & MODARESS AWAL 2012), Tehran (MIRZAYANS 1970; MODARESS AWAL 1997, 2012; SERRI et al. 2003, 2006), Northern provinces (FARAHBAKHS 1961; MIRZAYANS 1970; MODARESS AWAL 1997, 2012).

New materials: Lorestan, Yazd (H. Ghahari collection).

General distribution: Azerbaijan, Albania, Armenia, Austria, Belgium, Bosnia Herzegovina, Bulgaria, Byelorussia, China, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary,

Iran, Ireland, Israel-Palestine, Italy, Jordan, Kazakhstan, Kyrgyzstan, Latvia, Lebanon, Lithuania, Luxembourg, Malta, Macedonia, Moldavia, Mongolia, Montenegro, Morocco, The Netherlands, North Korea, Norway, Poland, Portugal, Romania, Russia (Central European Territory, East Siberia, North European Territory, South European Territory, West Siberia), Serbia, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Syria, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Plant association in Iran: *Beta vulgaris* (Amaranthaceae), *Pisum* sp. (Fabaceae), *Ranunculus acris* (Ranunculaceae), *Solanum tuberosum* (Solanaceae), *Taraxacum officinale* (Asteraceae), *Trifolium* sp. (Fabaceae) (Modaress Awal 1997, 2012) on *Taraxacum* sp. (Asteraceae) and *Ranunculus* sp. (Ranunculaceae) (TAHMASEBI & KHANJANI 1995).

Prey records: The larva is ectoparasite of honeybee, *Apis* spp. (AL-FAYED 2016) and ectoparasite of *Anthophora* sp. (Hymenoptera: Apidae)

***Meloe (Meloe) semicoriaceus* FAIRMAIRE, 1891**

Meloe (Meloe) semicoriaceus FAIRMAIRE, 1891: cii.

Distribution in Iran: Bushehr (SAHA 1979).

General distribution: Iran (SAHA 1979), Kashmir (SAHA 1979; BOLOGNA 2008).

***Meloe (Meloe) violaceus* MARSHAM, 1802**

Meloe proscarabaeus SULZER, 1761: 92 (nec LINNAEUS, 1758); ?*Meloe aprilina* MEYER, 1793: 21; *Meloe violaceus* MARSHAM, 1802: 482; *Meloe similis* MARSHAM, 1802: 168; *Melittophagus melittae*, KIRBY, 1818: 164; ?*Meloe rufipes* BREMI-WOLF, 1855: 199; *Cnestocera violacea*, THOMSON, 1859: 124; ?*Meloe strigose* MOTSCHULSKY, 1873: 48; *Meloe proscarabaeus* var. *violaceus*, LEONI, 1907: 233 (in part); *Meloe (Proscarabaeus) violaceus*, REITTER, 1911: 388; *Meloe (Meloe) violaceus*, MACSWAIN, 1956: 97.

Distribution in Iran: Guilan (KASZAB 1968b).

General distribution: Albania, Algeria, Andorra, Armenia, Austria, Azerbaijan, Belgium, Bosnia Herzegovina, Bulgaria, Byelorussia, Croatia, Czech Republic, Denmark, Estonia Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, India, Iran, Ireland, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Macedonia, Montenegro, Morocco, The Netherlands, Norway, Poland, Portugal, Romania, Russia (Central European Territory, East Siberia, Far East, North European Territory, South European Territory, West Siberia), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Ukraine, Uzbekistan.

Subgenus *Meloegonius* REITTER, 1911

***Meloe (Meloegonius) cicatricosus* LEACH, 1810**

Meloe cicatricosus LEACH, 1810: 39; *Meloe variolosus* FISCHER VON WALDHEIM, 1844; *Meloe huronensis* SALVAFIA, 1870; *Meloe ineditus* SALVAFIA, 1870; *Meloe (Meloegonius) cicatricosus* REITTER, 1911: 39.

Distribution in Iran: East Azarbaijan (KASZAB 1968b; MIRZAYANS 1970; MODARESS AWAL 1997, 2012), Khorasan (FEKRAT & MODARESS AWAL 2012), Tehran (MIRZAYANS 1970; MODARESS AWAL 1997, 2012; SERRI et al. 2003, 2006).

General distribution: Afghanistan, Albania, Armenia, Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, Byelorussia, Croatia, Czech Republic, France, Georgia, Germany, Great Britain, Greece, Hungary, Iran, Italy, Kazakhstan, Kyrgyzstan, Macedonia, Moldavia, Montenegro, Palestine, Poland, Romania, Russia (Central European Territory, South European Territory, West Siberia), Serbia, Slovakia, Slovenia, Spain, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, Uzbekistan.

***Meloe (Meloegonius) rufiventris rufiventris* GERMAR, 1817**

?*Meloe sulcicollis* LATREILLE, 1804: 391; *Meloe rufiventris* GERMAR, 1817: n. 6; *Meloe hoffmannseggii* GERMAR, 1817: 6 (nomen nudum); *Meloe coriarius* BRANDT & ERICHSON, 1832: 131; *Meloe reticulatus* BRANDT & RATZEBURG, 1833: 108; *Meloe (Meloegonius) coriarius*, REITTER, 1911: 389; *Meloe (Meloegonius) rufiventris*, KASZAB, 1981: 162.

Distribution in Iran: Khorasan (FEKRAT & MODARESS AWAL 2012).

General distribution: Afghanistan, Algeria, Austria, Azerbaijan, Croatia, Czech Republic, France, Georgia, Greece, Hungary, Iran, Iraq, Italy, Jordan, Kazakhstan, Kyrgyzstan, Libya, Moldavia, Russia (Central European Territory, South European Territory), Poland, Romania, Slovakia, Switzerland, Tajikistan, Turkey, Ukraine, Uzbekistan.

Subgenus *Mesomeloe* REITTER, 1911

***Meloe (Mesomeloe) bytinskii* KASZAB, 1969**

Meloe (Mesomeloe) bytinskii KASZAB, 1969: 279.

Distribution in Iran: Golestan (Gonbad - Holotype) (KASZAB 1969).

General distribution: Endemic to Iran.

***Meloe (Mesomeloe) coelatus* REICHE, 1857**

Meloe (Mesomeloe) coelatus REICHE, 1857: 271; *Meloe aegyptius* REITTER, 1895: 5; *Meloe nudus* WOLLASTON, 1864: 514.

Distribution in Iran: Hormozgan (KASZAB 1968b), Southern Iran (BOLOGNA & TURCO 2007), Iran (no locality cited) (BOLOGNA 1992; 2008; GARCÍA-PARÍS et al. 2013).

General distribution: Algeria, Egypt (Sinai), Iran, Israel-Palestine, Jordan, Morocco, Saudi Arabia, Spain (Canary Islands), Tunisia (BOLOGNA 2008), Qatar (GARCÍA-PARÍS et al. 2013).

Subgenus *Taphromeloe* REITTER, 1911

***Meloe (Taphromeloe) erythrocnemus* PALLAS, 1782**

Meloe erythrocnemus PALLAS, 1782: 76; *Meloe corallipes* GEBLER, 1847: 492; *Meloe (Taphromeloe) erythrocnemus*, REITTER, 1911: 389.

Distribution in Iran: East Azarbaijan (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Fars, Kermanshah (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Khorasan (FEKRAT & MODARESS AWAL 2012), Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012; SERRI et al. 2003, 2006).

General distribution: Algeria, Armenia, Azerbaijan, Bosnia Herzegovina,

Bulgaria, China, Croatia, Czech Republic, Greece, India, Iran, Italy, Kazakhstan, Kyrgyzstan, Montenegro, Morocco, Romania, Russia (Central European Territory, South European Territory, West Siberia), Serbia, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Subgenus *Treiodous* DUGÈS, 1869

***Meloe (Treiodous) autumnalis autumnalis* OLIVIER, 1792**

Meloe autumnalis OLIVIER, 1792: 65; *Meloe cyaneus* FABRICIUS, 1801: 589 (nec MULSANT, 1857); *Meloe punctata* MARSHAM, 1802: 483; *Meloe glabratus* LEACH, 1815: 43, 244, 251; *Meloe hiemalis* GREDLER, 1866: 289, 290; *Meloe cribripennis* DEJEAN i.l.; *Meloe autumnalis* var. *cribripennis* BAUDI DI SELVE, 1878: 352; *Meloe carnicus* KATTER, 1883: 41; *Meloe (Proscarabaeus) autumnalis*, REITTER, 1911: 388; *Meloe (Treiodus) autumnalis*, PINTO & SELANDER, 1970: 109; *Meloe (Proscarabaeus) (Anchomeloe) autumnalis*, IABLOKOFF-KHNZORIAN, 1983: 88.

Distribution in Iran: Ardabil (SERRI 2004), Iran (no locality cited) (BOLOGNA 2008; MONTALTO & BOLOGNA 2011).

General distribution: Albania, Algeria, Armenia, Austria, Belgium, Bosnia Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, France, Hungary, Georgia, Germany, Great Britain, Greece, Iran, Israel-Palestine, Italy, Jordan, Macedonia, Moldavia, Montenegro, Morocco, The Netherlands, Poland, Portugal, Romania, Russia (Central European Territory, South European Territory), Serbia, Slovakia, Slovenia, Spain, Switzerland, Syria, Tunisia, Turkey, Ukraine.

Subfamily *Nemognathinae* LAPORTE, 1840

Tribe *Nemognathini* LAPORTE, 1840

Genus *Apalus* FABRICIUS, 1775

Hapalus ILLIGER, 1801; unjustified emendation of *Apalus* FABRICIUS, 1775. *Criolis* MULSANT, 1858; type species: *Criolis guerini* MULSANT, 1858, by monotypy. ?*Coriologiton* MARSEUL, 1879; type species: *Criolis hiliaris* MARSEUL, 1879, by monotypy. *Deratus* MOTSCHULSKY, 1848; type species: *Meloe necydaela* PALLAS, 1773, by monotypy.

Type species: *Meloe bimaculatus* LINNAEUS, 1761, by monotypy. [21 species]

***Apalus bimaculatus* (LINNAEUS, 1761)**

Meloe bimaculatus LINNAEUS, 1761: 228; *Apalus bimaculatus*, FABRICIUS, 1775: 127; *Pyrochroa bimaculata*, DEGEER, 1775: 23; *Hapalus bimaculatus*, PROCHAZKA, 1892: 264; *Hapalus caruanae* REITTER i.l.

Material examined: Golestan province, Golestan National Park, 36°46'N 45°44'E, 1344 m, 2 ex., 06.2012. New record for Iran.

General distribution: Algeria, Austria, Bosnia Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Italy, Japan, Kazakhstan, Latvia, Libya, Lithuania, Morocco, Norway, Romania, Russia (North European Territory, "Siberia", South European Territory), Slovakia, Spain, Sweden, Switzerland, Syria, Tunisia, Turkey, Turkmenistan, Ukraine.

***Apalus necydaleus* (PALLAS, 1782)**

Meloe necydaleus PALLAS, 1782: 92; *Apalus rufipennis* GEBLER, 1830: 142; *Apalus spectabilis* FRIVALDSZKY, 1835: 265; *Hapalus necydaleus*, OERTZEN, 1886: 265; *Apalus necydaleus* var. *moreanus* PIC, 1922: 19.

Distribution in Iran: Mazandaran (GHAHARI et al. 2012), Iran (no locality cited) (BOLOGNA 2008, 2009; GHONEIM 2013b, c).

General distribution: "Caucasus", Greece, Hungary, Iran, Kazakhstan, Kyrgyzstan, Macedonia, Russia, Turkey, Ukraine.

***Apalus subfasciatus* PIC, 1922**

Apalus subfasciatus PIC, 1922: 19.

Distribution in Iran: "Perse" (PIC 1922).

General distribution: Endemic to Iran.

Genus *Ctenopus* FISCHER VON WALDHEIM, 1823

Type species: *Ctenopus melanogaster* FISCHER VON WALDHEIM, 1824, by monotypy. [18 species]

***Ctenopus aurantiacus* SEMENOV, 1893**

Ctenopus aurantiacus SEMENOV, 1893: 15.

Distribution in Iran: "Perse" (SEMENOV 1893), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Endemic to Iran.

***Ctenopus melanogaster* FISCHER VON WALDHEIM, 1823**

Ctenopus melanogaster FISCHER VON WALDHEIM, 1823: 176.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Iran, Kazakhstan, Kyrgyzstan, Turkmenistan.

***Ctenopus persicus* SEMENOV, 1893**

Ctenopus persicus SEMENOV, 1893: 368, 369, 373.

Distribution in Iran: "Perse" (SEMENOV 1893), Sistan & Baluchestan (KASZAB 1968b).

General distribution: Endemic to Iran.

***Ctenopus sinuatipennis* (FAIRMAIRE, 1892)**

Zonitis sinuatipennis FAIRMAIRE, 1892: cliv; *Ctenopus testaceus* SEMENOV, 1894: 370.

Distribution in Iran: Khorasan (FEKRAT & MODARESS AWAL 2012).

General distribution: China, Turkmenistan, Uzbekistan.

Genus *Euzonitis* SEMENOV, 1893

Type species: *Apalus sexmaculata* OLIVER, 1789, by original designation. [18 species]

***Euzonitis fulvipennis* (FABRICIUS, 1792)**

Zonitis fulvipennis FABRICIUS, 1792: 49; ?*Zonitis nigra* TAUSCHER, 1812: 163; ?*Zonitis nigricollis* FALDERMANN, 1832: 211; *Zonitis funeraria* FAIRMAIRE, 1883: cxlii; *Zonitis (Euzonitis) fulvipennis*, ESCHERICH, 1897: 109; *Euzonitis fulvipennis*, KASZAB, 1956: 39; *Zonitis Frivaldskyi* ESCHERICH, i.l.

Distribution in Iran: East Azarbaijan (SAKENIN et al. 2018).

General distribution: Armenia, Austria, Azerbaijan, Bulgaria, Croatia, Georgia, Greece, Hungary, Italy, Macedonia, Montenegro, Romania, Russia (Central European Territory, South European Territory), Serbia, Slovakia, Turkey, Ukraine.

***Euzonitis maculiceps* REITTER, 1897**

Euzonitis maculiceps REITTER, 1897: 110.

Distribution in Iran: Kermanshah, Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

General distribution: Iran, Kyrgyzstan, Tajikistan, Uzbekistan.

***Euzonitis paulinae* (MULSANT & REY, 1858)**

Zonitis paulinae MULSANT & REY, 1858: 193.

Distribution in Iran: Fars (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Israel-Palestine, Jordan.

***Euzonitis quadrimaculata* (PALLAS, 1782)**

Meloe quadrimaculata PALLAS, 1782: 91; *Mylabris quadripunctata* FABRICIUS, 1801: 84; *Zonitis bifasciata* SCHWARZ, 1808: 310; *Zonitis atra* SCHWARZ, 1808: 340; *Zonitis bimaculata* TAUSCHER, 1812: 158; *Zonitis fascitata* TAUSCHER, 1812: 159; *Zonitis quadripunctata*, MULSANT & REY, 1858; *Zonitis imperialis* WOLLASTON, 1861: 106; *Zonitis obliquata* MOTSCHULSKY, 1873: 53; *Zonitis concolor* ABEILLE DE PERRIN, 1880: 257; *Zonitis rufofasciata* FAIRMAIRE, 1883: cxlii; *Zonitis 4-punctata*, OERTZEN, 1886: 265; *Zonitis (Euzonitis) quadripunctata*, ESCHERICH, 1897: 111; *Euzonitis (Euzonitis) bifasciata*, ESCHERICH, 1897: 111; *Euzonitis quadripunctata*, PIC, 1913: 138; *Euzonitis quadrimaculata*, KASZAB, 1956: 39.

Distribution in Iran: Kermanshah (KASZAB 1968b; MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Markazi (FARAJI et al. 2012).

General distribution: Algeria, Armenia, Austria, Azerbaijan, Bosnia Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, France, Georgia, Hungary, Iran, Iraq, Israel-Palestine, Italy, Kazakhstan, Macedonia, Mongolia, Montenegro, Morocco, Portugal, Romania, Russia (Central European Territory, South European Territory), Serbia, Slovakia, Spain, Switzerland, Syria, Tunisia, Turkey, Turkmenistan, Ukraine.

***Euzonitis rubida* (MÉNÉTRIÉS, 1832)**

Zonitis (Euzonitis) rubida, ESCHERICH, 1897: 109.

Distribution in Iran: Fars, Zanzan (SERRI 2004).

General distribution: Afghanistan, Armenia, Azerbaijan, Greece, Turkey, Turkmenistan.

***Euzonitis sexmaculata* (OLIVIER, 1789)**

?*Zonitis fenestrata* PALLAS, 1781: 90; *Apalus sexmaculatus* OLIVIER, 1789: 166; *Zonitis sexmaculata*, MULSANT, 1857: 173; *Zonitis bipunctata* RAGUSA, 1882: 43; *Zonitis* (*Euzonitis*) *sexmaculata*, ESCHERICH, 1897: 108-109; *Euzonitis sexmaculata* PIC, 1922: 18; *Zonitis octomaculata* RAGUSA i.l.

Distribution in Iran: East Azarbaijan, Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012), Tehran (SERRI et al. 2003, 2006).

General distribution: Armenia, Azerbaijan, Bosnia Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, France, Georgia, Greece, Hungary, Iran, Iraq, Israel-Palestine, Italy, Jordan, Kazakhstan, Lebanon, Montenegro, Romania, Russia (South European Territory), Serbia, Spain, Syria, Tajikistan, Turkey, Turkmenistan, Ukraine.

Comments: *Euzonitis sexmaculata* form *lunata* TAUSCHER, 1812 was reported from Tehran (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Euzonitis terminata* (ABEILLE DE PERRIN, 1880)**

Zonitis terminata ABEILLE DE PERRIN, 1880: 255; *Zonitis auricoma* ESCHERICH, 1891: 54; *Zonitis* (*Euzonitis*) *bombycina* ESCHERICH, 1896: 27; *Zonitis* (*Euzonitis*) *auricoma*, ESCHERICH, 1897: 110; *Zonitis bombycina*, ESCHERICH, 1897: 47; *Euzonitis terminata*, BOLOGNA, 1988: 31.

Distribution in Iran: Khorasan (FEKRAT & MODARESS AWAL 2012).

General distribution: Afghanistan, Egypt, Greece, Hungary, Iran, Israel-Palestine, Italy, Jordan, Romania, Syria, Turkey, Turkmenistan.

***Euzonitis varentzowi* (SEMENOV, 1894)**

Zonitis varentzowi SEMENOV, 1894: 537.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Turkmenistan.

Genus *Glasunovia* SEMENOV, 1896

Type species: *Glasunovia caspica* SEMENOV, 1895, by subsequent designation. [4 species]

***Glasunovia afghanica* SEMENOV, 1896**

Glasunovia afghanica SEMENOV, 1896: 358.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Afghanistan, Iran, Turkmenistan.

Genus *Nemognatha* ILLIGER, 1807

Nematognatha GEMMINGER & HAROLD, 1870; unjustified emendation for *Nemognatha* ILLIGER, 1807. *Meganemognatha* ENNS, 1956 (as subgenus; currently valid); type species: *Nemognatha lurida* LECONTE, 1853, by original designation. *Pauronemognatha* ENNS, 1956 (as subgenus; currently valid); type species: *Nemognatha nigripennis* LECONTE, 1853, by original designation. *Pronemognatha* ENNS, 1956 (as subgenus; currently valid); type species: *Nemognatha sparsa* LECONTE, 1868, by original designation. *Gnathonemula* AKSENTJEV, 1981; type species: *Gnathonemula gracilis* AKSENTJEV, 1981, by monotypy.

Type species: *Zonitis vittata* FABRICIUS, 1801 (= *Zonitis piazata* FABRICIUS, 1798) by monotypy. [77 species]

***Nemognatha chrysomelina* (FABRICIUS, 1775)**

Zonitis chrysomelina FABRICIUS, 1775: 126; *Nemognatha chrysomelina*, ILLIGER, 1807: 333; *Nemognatha flavipes* MÉNÉTRIÉS, 1849: 284; *Nemognatha nigripes* SUFFRAIN, 1853: 236; *Nemognatha asiatica* MOTSCHULSKY, 1873: 54; *Zonitis maculicollis* FAIRMAIRE, 1875: 523; *Nemognatha flavicornis* STIERLIN, 1875: 478; *Nemognatha akbesiana* PIC, 1897: 35.

Distribution in Iran: Chaharmahal & Bakhtiari, Fars, Khuzestan (SERRI 2015), Hamadan (MODARRES AWAL 1997, 2012 as *Nemognatha nigripes* SUFFRAIN, 1853), Markazi (FARAJI et al. 2012; MOSLEMI et al. 2015), Semnan (MAKHAN 2012a), Tehran (MODARRES AWAL 1997, 2012 as *N. nigripes*; SERRI et al. 2003, 2006), Iran (no locality cited) (AKSENTJEV 1985; BOLOGNA 2008).

New Materials: Qom, Tehran (H. Ghahari collection).

General distribution: Afghanistan, Algeria, Armenia, Azerbaijan, Cyprus, Egypt, France, Greece, Iran, Iraq, Israel-Palestine, Jordan, Italy, Kazakhstan, Lebanon, Morocco, Portugal, Russia (South European Territory), Saudi Arabia, Spain, Syria, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Plant association in Iran: Flowers of *Echinops* sp. (Asteraceae) (MAKHAN 2012a).

***Nemognatha flavicornis* STIERLIN, 1876**

Nemognatha flavicornis STIERLIN, 1876: 478.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Iran.

***Nemognatha quinque maculata* SUFFRIAN, 1853**

Nemognatha quinque maculata SUFFRIAN, 1853: 235; *Zonitides 5-maculata*, ABEILLE DE PERRIN, 1880: 256; *Nemognatha 5-maculata*, ESCHERICH, 1897: 112; *Nemognatha sexmaculata* PIC, 1911: 74; *Nemognatha quinque maculata*, BORCHMAN, 1917: 170.

Distribution in Iran: Hormozgan, Sistan & Baluchestan (KASZAB, 1968b), Iran (no locality cited) (BOLOGNA & TURCO 2007).

General distribution: Egypt, Iran, Morocco, Saudi Arabia.

Genus *Sitaris* LATREILLE, 1802

Filalia MARTINEZ DE LA ESCALERA, 1906; type species: *Filalia cerambycina* MARTINEZ DE LA ESCALERA, 1906, by monotypy (currently considered as subgenus [BOLOGNA, 1991]).

Type species: *Necydalis humeralis* FABRICIUS, 1775 (= *Necydalea muralis* FOSTER. 1771) by monotypy. [Ca.25 species]

***Sitaris mellicolor* (BIGGS, 1945)**

Apalus mellicolor BIGGS, 1945: 110.

Distribution in Iran: Yazd (Deh-Bala) (BIGGS 1945).

General distribution: Endemic to Iran.

Genus *Stenoria* MULSANT, 1857

Sitaropsis IABLOKHOV-KHNZORYAN, 1958; type species: *Apalus (Sitaropsis) erevanensis* IABLOKHOFF-KHNZORYAN, 1958, by original designation. *Gineremia* PARDO ALCAIDE,

1961; type species: *Stenoria saharica* PARDO ALCAIDE, 1961, by original designation.
Type species: *Sitaris apicalis* LATREILLE, 1804, by monotypy. [Ca. 30 species]

Subgenus *Stenoria* MULSANT, 1857

***Stenoria (Stenoria) analis* SCHAUM, 1859**

Stenoria analis SCHAUM, 1859: 51; *Sitaris nigra* KNOCH i.l.; *Sitaris adusta* SCHAUM, 1859: 51; *Sitaris colletis* MAYET, 1873: 198; *Sitaris acutipennis* FAIRMAIRE, 1881: xlv; *Apalus (Stenoria) analis*, ESCHERICH, 1897: 122, 123.

Distribution in Iran: Iran (no locality cited). BOLOGNA (2009) believes that the Iranian record needs confirmation.

General distribution: Croatia, Czech Republic, France, Germany, Italy, Poland, Portugal, Russia (South European Territory), Spain, Switzerland, Turkey (BOLOGNA 2008), Lybia, Morocco (BOLOGNA 2009).

***Stenoria (Stenoria) apicalis apicalis* (LATREILLE, 1804)**

Sitaris apicalis LATREILLE, 1804: 403; *Ctenopus Sturmi* KUSTER, 1846: n. 72; *Sitaris thoracica* DEJEAN i.l. (nec KRAATZ, 1862); *Stenoria apicalis*, MULSANT, 1857: 186; *Stenoria kraatzi* MULSANT & REY, 1861: 191; *Hapalus (Stenoria) apicalis*, PROCHAZKA, 1892: 269; *Apalus (Stenoria) apicalis*, ESCHERICH, 1897: 123; *Sitaris villae* VECCHI i.l. is var. *fumigata* DE BETTA i.l.; *Apalus apicalis*, HORION, 1956: 118.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: "Caucasus", Croatia, France, Greece, Hungary, Iran, Italy, Montenegro, Morocco, Poland, Portugal, Romania, Russia (South European Territory), Serbia, Spain, Turkey, Turkmenistan, Ukraine.

***Stenoria (Stenoria) grandiceps* (SEMENOV, 1893)**

Hapalus grandiceps SEMENOV, 1893: 280.

Distribution in Iran: "Perse" (SEMENOV 1893), Iran (no locality cited) (BOLOGNA 2008).

General distribution: Endemic to Iran.

***Stenoria (Stenoria) intermedia* (DOKHTOUROFF, 1889)**

Hapalus intermedia DOKHTOUROFF, 1889: 185.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Armenia, Azerbaijan, Iran, Tajikistan, Turkmenistan.

***Stenoria (Stenoria) richteri* KASZAB, 1959**

Stenoria (Stenoria) richteri KASZAB, 1959: 5.

Distribution in Iran: Sistan & Baluchestan (Iranshahr) (KASZAB 1959), Iran (no locality cited) (BOLOGNA & TURCO 2007; BOLOGNA 2008).

General distribution: Endemic to Iran.

Genus *Zonitis* FABRICIUS, 1775

Neozonitis ENNS, 1956 (as subgenus; currently valid); type species: *Zonitis bilineata* SAY, 1817, by original designation. *Parazonitis* ENNS, 1956 (as subgenus; currently valid); type species: *Nemognatha vittigera* LÉCONTE, 1853, by original designation.

Type species: *Zonitis flava* FABRICIUS, 1775, fixed by subsequent designation. [136 species]

Subgenus *Zonitis* FABRICIUS, 1775

***Zonitis (Zonitis) flava* FABRICIUS, 1775**

Zonitis flava FABRICIUS, 1775: 127; *Mylabris testacea* FABRICIUS, 1781: 331; *Lytta afra* ROSSI, 1790: 240 (nec LINNAEUS, 1767); *Apalus testaeus*, OLIVIER, 1791: 166; *Zonitis praeusta*, FABRICIUS, 1792: 48; *Zonitis nigripennis* FABRICIUS, 1794: 103; *Zonitis thoracica* LAPORTE DE CASTELNAU, 1840: 276; *Zonitis scutellaris* MOTSCHULSKY, 1870: 52; *Zonitis nigripes* MOTSCHULSKY, 1873: 52; *Zonitis impressicollis* MOTSCHULSKY, 1873: 53; *Zonitis analis* ABEILLE DE PERRIN, 1880: 256; *Zonitis usta* KRAATZ i.l.; *Zonitis variabilis* STAUDINGER i.l.

Distribution in Iran: Golestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Zonitis praeusta* FABRICIUS, 1792; GHAHARI et al. 2012), Iran (no locality cited) (BOLOGNA 2008, 2009; GHONEIM 2013b, c).

General distribution: Albania, Algeria, Armenia, Austria, Azerbaijan, Bulgaria, China, Croatia, Cyprus, Czech Republic, France, Georgia, Greece, Hungary, Iran, Israel-Palestine, Jordan, Italy, Kazakhstan, Lebanon, Libya, Montenegro, Morocco, Portugal, Romania, Russia (South European Territory), Serbia, Slovakia, Spain, Switzerland, Syria, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan.

Comments: Two forms *Zonitis praeusta* form *flava* TAUSCHER, 1812 and *Zonitis praeusta* form *flaviventris* TAUSCHER, 1812 were reported from Guilan and Kermanshah, respectively (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

***Zonitis (Zonitis) nigratarsis* (STIERLIN, 1876)**

Nemognatha nigratarsis STIERLIN, 1876: 477.

Distribution in Iran: Sistan & Baluchestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012 as *Nemognatha nigratarsis* STIERLIN, 1876), Iran (no locality cited) (AKSENTJEV 1985; BOLOGNA 2008).

General distribution: Armenia, "Caucasus", Iran.

Genus *Zonitoschema* PÉRINGUEY, 1909

Zonitoides FAIRMAIRE, 1883; [nec *Zonitoides* LEHMAN, 1862 (Gastropoda)]; replaced by *Zonitopsis*. *Zonitopsis* WELLMAN, 1910; type species: *Zonitoides megalops* FAIRMAIRE, 1883, by monotypy as type species of *Zonitoides* Fairmaire; new name for *Zonitoides*. *Stenoderistella* REITTER, 1911; type species: *Stenoderella pallidissima* REITTER, 1908, by monotypy.

Type species: *Lytta coccidea* FABRICIUS, 1801, by subsequent designation. [Ca. 58 species]

***Zonitoschema iranica* KASZAB, 1959**

Zonitoschema iranica KASZAB, 1959: 4; *Zonitoschema gibdoana*, KASZAB, 1983: 187 (in part); *Zonitoschema rubricolor* (misidentification), BATELKA & GEISTHARDT, 2009: 201.

Distribution in Iran: Hormozgan (KASZAB 1968b; BATELKA & BOLOGNA 2014), Sistan & Baluchestan (Makran) (KASZAB 1959, 1968b).

General distribution: Endemic to Iran.

Tribe Stenoderini SELANDER, 1991

Genus Stenodera ESCHSCHOLTZ, 1818

Zonitides ABEILLE DE PERRIN, 1880; *Stenoderina* AKSENTJEV, 1988 (as subgenus; currently valid) [Single species]

Subgenus Stenodera ESCHSCHOLTZ, 1818

***Stenodera (Stenodera) caucasica* (PALLAS, 1781)**

Meloe caucasica PALLAS, 1781: 94; *Mylabris sexmaculata* FABRICIUS, 1794: 120; *Zonitis caucasica*, TAUSCHER, 1812: 161; *Stenodera sexpunctata* ESCHSCHOLTZ, 1818: 469; *Megatrachelus caucasicus*, MOTSCHULSKY, 1845: 84; *Zonitis (Stenodera) caucasica*, DOKHTOUROFF, 1889: 183; *Stenodera caucasica*, ESCHERICH, 1897: 102; *Stenodera (Megatrachelus) caucasica*, PIC, 1909: 130.

Distribution in Iran: Golestan (KHORMALI et al. 2004), Khorasan (FEKRAT & MODARRES AWAL 2012).

General distribution: Albania, Armenia, Azerbaijan, Bulgaria, Croatia, Georgia, Greece, Iran, Israel-Palestine, Jordan, Lebanon, Macedonia, Moldavia, Montenegro, Romania, Russia (South European Territory), Serbia, Syria, Turkey, Turkmenistan, Ukraine.

Comments: *Stenodera caucasica* form *bisbinotata* PIC, 1909 was reported from Golestan (MIRZAYANS 1970; MODARRES AWAL 1997, 2012).

Doubtful species

In total, three species of Meloidae which were recorded from Iran are doubtful and we do not consider them as the fauna of Iran.

***Mylabris 11-notata turkestanica* DOKHTOUROFF, 1890**

Mylabris (Lachnabris) turkestanica DOKHTOUROFF, 1889: 168.

Distribution in Iran: Khorasan and other northern provinces of Iran (FARAHBAKHS 1961; MODARRES AWAL 1997, 2012).

Plant association in Iran: *Hordeum vulgare* (Poaceae), *Cucumis sativus* (Cucurbitaceae), *Cucumis melo* (Cucurbitaceae), *Citrullus lanatus* (Cucurbitaceae), *Sinapis* sp. (Brassicaceae), *Beta vulgaris* (Amaranthaceae), *Nicotiana* sp. (Solanaceae), *Triticum* sp. (Poaceae) (MODARRES AWAL 1997, 2012).

Comments: *Mylabris turkestanica* DOKHTOUROFF, 1890 is a doubtful species. It is considered as a variety and was referred to *M. undecimnotata* HEYDEN, 1883 by SUMAKOV (1930) and to *M. mannerheimii* GEBLER, 1844 by KUZIN (1954). *M. turkestanica* is a valid taxon as endemic to Tajikistan (BOLOGNA 2008).

***Mylabris (Lachnabris) undecimnotata* (HEYDEN, 1883)**

Zonabris undecimnotata HEYDEN, 1883: 66.

Distribution in Iran: Iran (no locality cited) (BOLOGNA 2008).

General distribution: Iran, Kazakhstan, Uzbekistan.

Comments: *Mylabris undecimnotata* HEYDEN, 1883 is a doubtful species, considered by KUZIN (1954) as a variety of *M. mannerheimii* Gebler, 1844 (BOLOGNA 2008).

***Mylabris (Micrabris) dejeani* GYLLENHAL, 1817**

Mylabris (Micrabris) dejeani GYLLENHAL, 1817: 35.

Comments: MIRZAYANS (1970) and MODARRES AWAL (1997, 2012) reported this species from Tehran but its distribution is restricted to Portugal and Spain, and its presence in Iran is doubtful.

Discussion

This catalogue indicates that Iranian Meloidae comprises a rather diverse fauna. In total, 230 species in 32 genera and two subfamilies are reported from Iran which the most species-rich genera are *Mylabris* (64 species), *Hycleus* (29 species), *Meloe* (25 species) and *Cerocoma* (22 species) (Fig. 2). Totally 40 species are endemic for the fauna of Iran. MIRZAYANS (1970) and MODARRES AWAL (1997) reported *Mylabris pseudounicolor* Bog. from Tehran but it is an invalid taxon and absent in the catalogue of Palaearctic Coleoptera. Two species, *Mylabris pallidomaculata* L. REDTENBACHER, 1850 (recorded from "Perse" by SUMAKOV (1915), and distributed in Egypt and Iran (BOLOGNA 2008)), and *Mylabris sanguinosa* Marseul, 1872 (distributed in Iran and Iraq (BOLOGNA 2008)) are considered as incertae sedis by (BOLOGNA 2008).

Distribution. Analysis of the species recorded in each province shows that Meloidae have been recorded in all the Iranian provinces (29 of 31 provinces which we considered three provinces, Northern, Razavi and Southern Khorasan under Khorasan). Among them, Khorasan with 56 recorded species has the highest diversity, followed by Fars, Tehran and Khuzestan provinces with 51, 48 and 45 species, respectively (Fig. 3). These results are unsurprising because these provinces represent those that have been most heavily sampled.

Species diversity. Among the adjacent countries of Iran, the fauna of Turkey with 178 recorded species (KOÇAK & KEMAL 2010) is more diverse than the others (Fig. 4). Additionally, Turkey shares the highest number of species with Iran, with 89 species of 178 recorded, followed by Armenia (67 of 93), Turkmenistan (60 of 105), Azerbaijan (56 of 70), Iraq (47 of 48), Afghanistan (37 of 98), Saudi Arabia (23 of 75), Oman (7 of 16) and Arab Emirates (6 of 17). Of course there is not any comprehensive study beside the checklist of BOLOGNA (2008) from the Palaearctic catalogue on Meloidae of these countries. Also, no species have been reported thus far from Bahrain and Kuwait, primarily because they have not been systematically investigated. Faunistic works in these countries are expected to result in increasing species numbers as well.

Prey records. Some of the Iranian meloids including, *Hycleus fuscus*, *H. polymorphus polymorphus*, *H. quatuordecimpunctatus*, *Mylabris (Eumylabris) calida*, *M. (Eumylabris) crocata*, *M. (Eumylabris) fabricii*, *M. (Chrysabris) hemprichi*, *M. (Eumylabris) impressa impressa*, *M. (Ammabris) laticollis*, *M. (Mylabris) parumpicta*, *M. (Mylabris) quadripunctata* and *M. (Mauritabris) tenebrosa* are predators of

grasshoppers (e.g., *Doclostaurus* spp. and *Calliptamus* spp. (Orthoptera: Acrididae)) which can have efficient role in biological control of these pests. Additionally, *Meloe* (*Lampromeloe*) *cavensis* was reported by DI GIULIO et al. (2014) as the predator of *Anthophora nigrocincta* and *A. pennata* (Hymenoptera: Apidae).

The biology of meloids which are producer cantharidin was studied well but for the predator species is unknown. Faunistic surveys in different regions of Iran are expected to result in new findings (new country records, new species, new host plants and natural enemies), due to the various geographical regions and climates in Iran.

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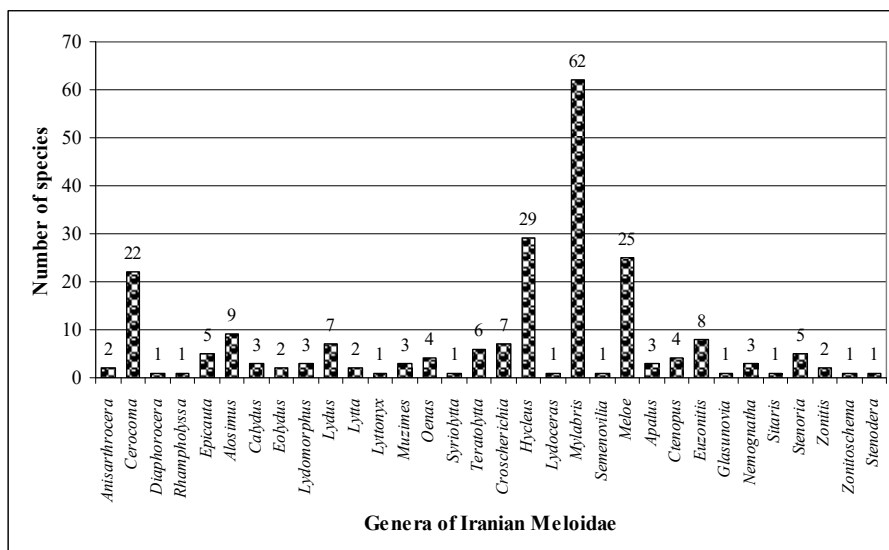


Figure 2. Number of species of Meloidae in genera known from Iran.

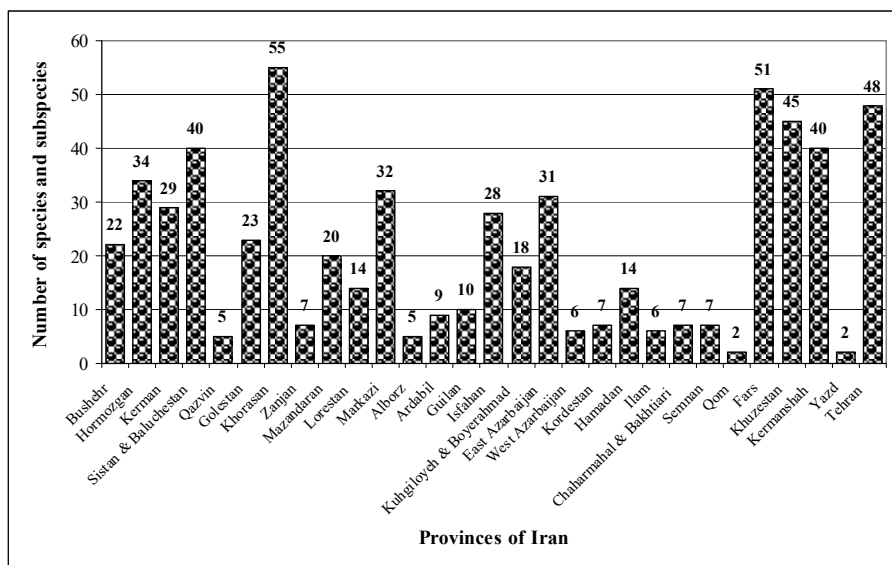


Figure 3. Number of reported species of Iranian Meloidae by province.

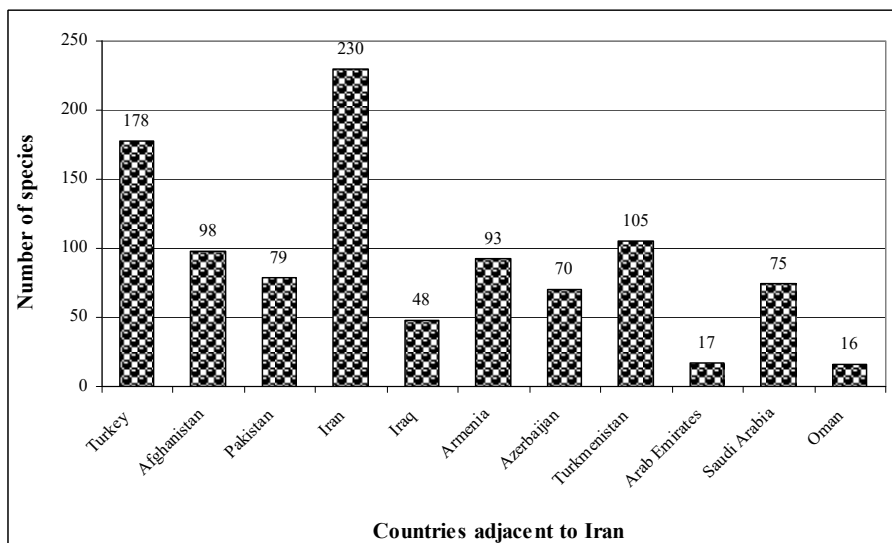


Figure 4. Comparison of species richness of Meloidae in Iran and adjacent countries (adapted from BOLOGNA 2008, and for Turkey: KOÇAK & KEMAL 2010, Pakistan (+Kashmir): BOLOGNA et al. 2018).

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