

A Faunistic Study of some Coleoptera Families from Iran

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Samin, N., Etebarian, H.R., Sakenin, H., Ghahari, H. & Mirutenko, V. A faunistic study of some Coleoptera families from Iran.

Summary. This paper deals with the faunistic survey of some Coleoptera families of Iran. The total of 21 species from 6 families Hydrophilidae (5 species, 4 genera), Agyrtidae (single species), Scydmaenidae (3 species, 2 genera), Dasytidae (3 species, 3 genera), Latridiidae (5 species, 5 genera) and Mordellidae (4 species, 1 genus) were collected and identified. Six species are recorded for the first time from Iran: Hydrophilidae: *Laccobius (Compsolaccobius) decorus* Gyllenhal, 1827; Agyrtidae: *Apteroloma anglorossicum* A. Semenov, 1891; Scydmaenidae: *Euconnus (Euconnus) hirticollis* Illiger, 1898; Latridiidae: *Cartodere (Cartodere) constricta* (Gyllenhal, 1827), *Migneauxia lederi* Reitter, 1875; Mordellidae: *Mordellistena (Mordellistena) dalmatica* Ermisch, 1956.

Key words: Coleoptera, Hydrophilidae, Agyrtidae, Scydmaenidae, Dasytidae, Latridiidae, Mordellidae, fauna, Iran.

Самін, Н., Етабарян, Х.Р., Сакенін, Х., Гхахари, Х. та Мірутенко, В. Фауністичне дослідження деяких родин твердокрилих з Ірану. Резюме. Стаття присвячена фауністичному вивченню деяких родин Coleoptera з Ірану. Загалом 21 видів з 6 родин Hydrophilidae (5 видів, 4 роди), Agyrtidae (1 вид), Scydmaenidae (3 види, 2 роди), Dasytidae (3 види, 3 роди), Latridiidae (5 видів, 5 родів) і Mordellidae (4 види, 1 рід) і були зібрані та ідентифіковані. Шість видів вперше наведено для фауни Ірану: Hydrophilidae: *Laccobius (Compsolaccobius) decorus* Gyllenhal, 1827; Agyrtidae: *Apteroloma anglorossicum* A. Semenov, 1891; Scydmaenidae: *Euconnus (Euconnus) hirticollis* Illiger, 1898; Latridiidae: *Cartodere (Cartodere) constricta* (Gyllenhal, 1827), *Migneauxia lederi* Reitter, 1875; Mordellidae: *Mordellistena (Mordellistena) dalmatica* Ermisch, 1956.

Ключові слова: Coleoptera, Hydrophilidae, Agyrtidae, Scydmaenidae, Dasytidae, Latridiidae, Mordellidae, фауна, Іран.

Самин, Н., Этабарян, Х.Р., Сакенин, Х., Гхахари, Х. и Мирутенко, В. Фаунистическое исследование некоторых семейств жесткокрылых из Ирана. Резюме. Статья посвящена фаунистическому изучению некоторых семейств Coleoptera из Ирана. В целом 21 вид из 6 семейств Hydrophilidae (5 видов, 4 рода), Agyrtidae (1 вид), Scydmaenidae (3 вида, 2 рода), Dasytidae (3 вида, 3 рода), Latridiidae (5 видов, 5 родов) и Mordellidae (4 вида, 1 род) были собраны и идентифицированы. Шесть видов впервые указаны для фауны Ирана: Hydrophilidae: *Laccobius (Compsolaccobius) decorus* Gyllenhal, 1827; Agyrtidae: *Apteroloma anglorossicum* A. Semenov, 1891; Scydmaenidae: *Euconnus (Euconnus) hirticollis* Illiger, 1898; Latridiidae: *Cartodere (Cartodere) constricta* (Gyllenhal, 1827), *Migneauxia lederi* Reitter, 1875; Mordellidae: *Mordellistena (Mordellistena) dalmatica* Ermisch, 1956.

Ключевые слова: Coleoptera, Hydrophilidae, Agyrtidae, Scydmaenidae, Dasytidae, Latridiidae, Mordellidae, фауна, Иран.

Introduction

Species diversity of Iranian Coleoptera are studied step by step by the fourth author and other coleopterists of the world (see Legalov *et al.* 2010; Lason & Ghahari

2013; Bunalski *et al.* 2014; Bartolozzi *et al.* 2014; Ghahari & Háva 2015; Ghahari *et al.* 2015; Ghahari & Novak 2015; Beaver *et al.* 2016; Platia & Ghahari 2016; Liu *et al.* 2016; Zappi & Ghahari 2016; Thomas & Ghahari 2016; Mirutenko & Ghahari 2016; Fanti & Ghahari 2016).

The aim of this paper is a faunistic study on the families Hydrophilidae, Agyrtidae, Scydmaenidae, Dasytidae, Latridiidae, and Mordellidae from some regions of Iran in order to determining of Iranian coleopterous fauna gradually.

Material and methods

The specimens of this faunistic research were collected by sweeping net and by hand in different regions of Iran by the authors, some colleagues and students. Additionally some materials preserved in different museums and insect collections were studied. The materials of this research are preserved in collections by Najmeh Samin and Hamid Sakenin. Data about classification, nomenclature and distribution data are mainly based on Růžička (2004, Agyrtidae), Hansen (2004, Hydrophilidae), Davies (2004, Scydmaenidae), Mayor (2007, Dasytidae), Johnson (2007, Latridiidae) and Horák (2008, Mordellidae).

Results

Totally, twenty-one Coleoptera species of the families Hydrophilidae, Agyrtidae, Scydmaenidae, Dasytidae, Latridiidae, and Mordellidae are listed alphabetically with distribution data. Distribution outside Iran is given by countries in alphabetical order.

Family Hydrophilidae Latreille, 1802

Genus *Berosus* Leach, 1817

Berosus (Berosus) dispar Reiche & Saulsky, 1856

Material examined: Kermanshah province, Javanrud, 34°46'N 46°19'E, 1 ex., April 2001 (F. Mahmoudi leg.).

General distribution: Armenia, Iran, Iraq, Lebanon, Syria, Turkey.

Genus *Laccobius* Erichson, 1837

Laccobius (Compsolaccobius) decorus Gyllenhal, 1827

Material examined: Golestan province, Golestan National Park, 1 ex., 06.2012 (H. Sakenin leg.).

General distribution: Afghanistan, Finland, Georgia, Iran (**new record**), Kazakhstan, Kyrgyzstan, Latvia, Mongolia, Russia (South European Territory, West Siberia), Sweden, Tajikistan, Turkmenistan, UK, Uzbekistan.

Laccobius (Microlaccobius) sublaevis Sahlberg, 1900

Material examined: Mazandaran province, Behshahr, 36°41'N 53°44'E, 2 ex., 15.07.2013 (H. Sakenin leg.).

General distribution: India (Uttar Pradesh), Iran, Kazakhstan, Kyrgyzstan, Nepal, Tajikistan, Turkmenistan, Uzbekistan.

Genus *Dactylosternum* Wollaston, 1854

Dactylosternum abdominale Fabricius, 1792

Material examined: Hamadan province, Nahavand, 34°14'N 48°14'E, 1 ex., 09.2011 (H. Ghahari leg.).

General distribution: Algeria, Azerbaijan, Croatia, Cyprus, Egypt, France, Germany, Greece, India, Iran, Italy, Japan, Portugal (Madeira Archipelago), Spain, Switzerland, Syria, Tunisia, UK, Yemen.

Genus *Sphaeridium* Fabricius, 1778

Sphaeridium bipustulatum Fabricius, 1781

Material examined: Razavi Khorasan province, Quchan, 37°09'N 58°34'E, 3 ex., 08.2014 (H. Ghahari leg.).

General distribution: Afghanistan, Algeria, Armenia, Austria, Azerbaijan, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Canary Islands, Croatia, Czech Republic, Denmark, Egypt, Finland, France, Germany, Hungary, Iran, Israel, Italy, Kazakhstan, Latvia, Lithuania, Macedonia, Mongolia, Montenegro, Netherlands, Norway, Palestine, Poland, Portugal, Russia (Northern and Central European Territory, East and West Siberia), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Tunisia, UK.

Family Agyrtidae Thomson, 1859

Genus *Apteroloma* Hatch, 1927

Apteroloma anglorossicum A. Semenov, 1891

Material examined: Razavi Khorasan province, Dargaz, 37°20'N 59°05'E, 439 m, 2 ex., 15.06.2009 (unknown collector).

General distribution: Afghanistan, Iran (**new record**), Kazakhstan, Kyrgyzstan, Pakistan, Tajikistan, Turkmenistan, Uzbekistan.

Family Scydmaenidae Leach, 1815

Genus *Euconnus* Thomson, 1859

Euconnus (Euconnus) hirticollis Illiger, 1898

Material examined: Ardabil province, Germe, 39°00'N 47°57'E, 3 ex., 08.2010 (N. Samin leg.).

General distribution: Albania, Armenia, Austria, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Georgia,

Germany, Greece, Hungary, Iran (**new record**), Ireland, Italy, Latvia, Macedonia, Montenegro, Netherlands, Norway, Poland, Romania, Russia (North and South European Territory), Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK.

Euconnus (Psomophus) intrusus intrusus Schaum, 1844

Material examined: East Azarbaijan province, Kaleybar, 38°54'N 47°03'E, 1 ex., 21.08.2007 (M. Havaskary leg.).

General distribution: Afghanistan, Albania, Armenia, Azerbaijan, Bosnia and Herzegovina, Croatia, Cyprus, France, Georgia, Germany, Iran, Israel, Italy, Macedonia, Montenegro, Serbia, Switzerland, Turkey.

Genus *Stenichnus* Thomson, 1859

Stenichnus (Stenichnus) pusillus pusillus P.W.J. Müller & Kunze, 1822

Material examined: Chaharmahal & Bakhtiari province, Kuhrang, 32°25'N 50°00'E, 2 ex., 08.2009 (M. Shaban leg.).

General distribution: Austria, Azerbaijan, Croatia, Czech Republic, France, Georgia, Germany, Greece, Hungary, Iran, Ireland, Italy, Netherlands, Poland, Romania, Russia (Central, North, and South European Territories), Slovakia, Spain, Sweden, Switzerland, Turkey, UK.

Family Dasytidae Laporte, 1840

Genus *Dasytiscus* Kiesenwetter, 1859

Dasytiscus qffinis Morawitz, 1862

Material examined: Guilan province, Astara, 38°20'N 48°46'E, 2 ex., 11.07.2013 (H. Ghahari leg.).

General distribution: Albania, Armenia, Azerbaijan, Bulgaria, Croatia, Georgia, Germany, Iran, Macedonia, Moldova, Montenegro, Romania, Russia (South European Territory), Serbia, Turkey, UK.

Genus *Haplothrix* Schilsky, 1896

Haplothrix ruficollis Reitter, 1889

Material examined: West Azarbaijan province, Salmas, 38°11'N 44°44'E, 2 ex., May 2011 (M. Ghorbani leg.).

General distribution: Armenia, Georgia, Iran, Turkey.

Genus *Dasytes* Paykull, 1799

Dasytes (Dasytes) buphtalmus Baudi di Selve, 1873

Material examined: Kordestan province, Bijar, 35°52'N 47°36'E, 1 ex., 08.2010 (H. Yusefi leg.).

General distribution: Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Greece, Hungary, Iran, Italy, Macedonia, Montenegro, Serbia, Slovakia, Turkey.

Family Latridiidae Erichson, 1842

Genus *Cartodere* C.G. Thomson, 1859

Cartodere (Cartodere) constricta (Gyllenhal, 1827)

Material examined: Razavi Khorasan province, Mashhad, 36°17'N 59°40'E, 1 ex., May 2012 (N. Samin leg.).

General distribution: Cosmopolitan; All Europe, Afghanistan, Egypt, China (Fujian), India, Iran (**new record**), Japan, Kazakhstan, Mongolia, Morocco, Nepal, Pakistan, Portugal (Madeira Archipelago), Russia, Yemen.

Genus *Dienerella* Reitter, 1911

Dienerella (Dienerella) filiformis (Gyllenhal, 1827)

Material examined: Ardabil province, Germe, 39°00'N 47°57'E, 764 m, 1 ex., 08.2010 (N. Samin leg.).

General distribution: All Europe, Afghanistan, Japan, Iran, Uzbekistan.

Genus *Enicmus* C.G. Thomson, 1859

Enicmus histrio Joy & Tomlin, 1910

Material examined: Sistan & Baluchestan province, Zahedan, 29°29'N 60°15'E, 2 ex., May 2013 (unknown collector).

General distribution: Widespread and common in Palaearctic and Oriental Regions; major part of Europe east to Azerbaijan; Australia, Nigeria.

Genus *Corticicara* C. Johnson, 1975

Corticicara gibbosa (Herbst, 1793)

Material examined: Hamadan province, Nahavand, 34°14'N 48°14'E, 2 ex., 09.2011 (H. Ghahari leg.).

General distribution: A common and widely distributed species in Afrotropical, Nearctic and Oriental Regions; all Europe, Afghanistan, Bhutan, China, Egypt, Hongkong, India, Iran, Japan, Mongolia, Morocco, Nepal, North Korea, Pakistan, Russia, Taiwan, Turkey.

Genus *Migneauxia* Jacquelin du Val, 1859

Migneauxia lederi Reitter, 1875

Material examined: Kerman province, Jiroft, 28°50'N 57°35'E, 1 ex., April 2012 (H. Ghahari leg.).

General distribution: A common and cosmopolitan species. All Europe, Afghanistan, Algeria, Bhutan, Canary Islands, Egypt, India, Iran (**new record**), Iraq, Japan, Jordan, Morocco, Saudi Arabia, Tunisia, United Arab Emirates, Yemen.

Family Mordellidae Latreille, 1802

Genus *Mordellistena* A. Costa, 1854

Mordellistena (Mordellistena) dalmatica Ermisch, 1956

Material examined: Golestan province, Minudasht, 37°10'N 55°30'E, 31 m, 1 ex., 26.06.2011 (H. Sakenin leg.).

General distribution: Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Iran (**new record**), Italy, Macedonia, Slovakia, Tajikistan, Turkey, Turkmenistan, UK.

Mordellistena (Mordellistena) falsoparvuliformis Ermisch, 1963

Material examined: Golestan province, Golestan National Park, 36°46'N 45°44'E, 1366 m, 2 ex., 06.2012 (H. Sakenin leg.).

General distribution: Albania, Austria, Belarus, Czech Republic, Georgia, Germany, Hungary, Iran, Russia (South European Territory), Slovakia, Tajikistan, Turkey, Turkmenistan, UK.

Mordellistena (Mordellistena) hirtipes Schilsky, 1895

Material examined: West Azarbaijan province, Mahabad, 36°46'N 45°44'E, 1366 m, 2 ex., 17.09.2010 (N. Samin leg.).

General distribution: Cyprus, France, Greece, Iran, Israel, Jordan, Macedonia, Turkey, Turkmenistan, Syria, UK.

Mordellistena (Mordellistena) horaki Piňo, 1985

Material examined: Mazandaran province, Savadkooh, 36°05'N 52°55'E, 1 ex., 22.08.2011 (H. Sakenin leg.).

General distribution: Iran, Iraq, Kyrgyzstan, Turkmenistan.

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