

Linzer biol. Beitr.	47/2	1811-1817	30.12.2015
---------------------	------	-----------	------------

A faunistic study on Heteroptera (Insecta) from some regions of Eastern Iran

Najmeh SAMIN & Rauno E. LINNAVUORI

A b s t r a c t : This paper deals with the faunistic survey on Heteroptera from some regions of eastern Iran. Totally 22 species from the families Alydidae, Berytidae, Largidae, Miridae, Piesmatidae and Reduviidae were collected and identified.

K e y w o r d s : Heteroptera, fauna, Iran.

Introduction

Heteroptera (Hemiptera) are part of the most successful radiation of nonholometabolous insects because of more than 40,000 described species worldwide (SCHUH 1986; WEIRAUCH & SCHUH 2011). Some of them are agricultural pests which cause severe damages to the crops and some of them are predators which have important role in biological control of pests. The fauna of Iranian Heteroptera was studied rather well and almost the data were catalogued (GHAHARI et al. 2009a, b, 2010a, b, 2012, 2013a,b; GHAHARI & MOULET 2012, 2013; GHAHARI & HEISS 2012; GHAHARI & CHEROT 2014; GHAHARI et al. 2014). The aim of this paper is faunistic work on Heteroptera in some regions of east of Iran including Kerman and Khorasan provinces.

Material and Methods

In this research, the materials were collected by sweeping net from some regions of Kerman and Khorasan provinces located in eastern Iran. The sampled regions were Baft, Jiroft, Kerman, Sirjan, Zarand (Kerman province) and Birjand, Ferdos, Gonabad, Khaf, Mashhad, Qaen (Khorasan province). Classification and nomenclature suggested by PUTSHKOV & PUTSHKOV (1996), and AUKEMA et al. (2013) have been followed.

Results

In total 22 species of Heteroptera from 6 families Alydidae, Berytidae, Largidae, Miridae, Piesmatidae and Reduviidae are reported in this paper as the fauna of eastern parts of Iran. *Physopelta gutta gutta* (BURMEISTER, 1834) (Largidae) is newly recorded from Iran.

Family A l y d i d a e AMYOT & SERVILLE, 1843**Subfamily A l y d i n a e (AMYOT & SERVILLE, 1843)****Genus *Camptopus* AMYOT & SERVILLE, 1843*****Camptopus lateralis* (GERMAR, 1817)**

M a t e r i a l e x a m i n e d : Kerman province, Zarand, 1♀, 2♂♂, spring 2010. Khorasan province, Khaf, 1♂, April 2011.

G e n e r a l d i s t r i b u t i o n : Holo-Mediterranean, extending to south of Central Europe and Central Asia in the north, and Pakistan and India in the east.

***Camptopus tragacanthae* (KOLENATI, 1845)**

M a t e r i a l e x a m i n e d : Khorasan province, Birjand, 2♀♀, 2♂♂, May 2012.

G e n e r a l d i s t r i b u t i o n : Distributed from Asian part of Turkey and Transcaucasia towards south-western Russia, and through the Central Asia to Afghanistan and north-western China.

Family B e r y t i d a e FIEBER, 1851**Subfamily B e r y t i n a e FIEBER, 1851****Genus *Apolymus* FIEBER, 1859*****Neides afghanus* SEIDENSTÜCKER, 1968**

M a t e r i a l e x a m i n e d : Kerman province, Sirjan, 2♀♀, spring 2010.

G e n e r a l d i s t r i b u t i o n : Central Asia: Afghanistan, Kazakhstan, Asian Turkey, Iraq, Iran, Kirghizia, Tadjikistan, Turkmenistan, Uzbekistan; Yemen.

***Neides brevipennis* PUTON, 1895**

M a t e r i a l e x a m i n e d : Kerman province, Kerman, 1♂, April 2013.

G e n e r a l d i s t r i b u t i o n : Ponto Caucasian, Near East, Iraq, Iran, Turkmenistan, Yemen.

Genus *Berytinus* KIRKALDY, 1900***Berytinus (Berytinus) minor* (HERRICH-SCHAEFFER, 1835)**

M a t e r i a l e x a m i n e d : Khorasan province, Qaen, 2♀♀, October 2009.

G e n e r a l d i s t r i b u t i o n : Euro-Siberian; imported in Canada and USA.

Family L a r g i d a e AMYOT & SERVILLE, 1843**Subfamily P h y s o p e l t i n a e HUSSEY, 1929**

Tribe Physopeltini HUSSEY, 1929**Genus *Physopelta* AMYOT & SERVILLE, 1843*****Physopelta gutta gutta* (BURMEISTER, 1834)**

Material examined: Kerman province: Zarand, 2♀♀, April 2008. **New record for Iran.**

General distribution: South-eastern Palaearctic and Oriental Regions, including Afghanistan, Pakistan, Korea, Japan southern China, and Taiwan (STEHLÍK & KERZHNER 1999; KERZHNER 2001; STEHLÍK 2007).

Family M i r i d a e HAHN, 1833**Subfamily O r t h o t y l i n a e VAN DUZEE, 1916****Genus *Halticus* HAHN, 1832*****Halticus asperulus* HORVÁTH, 1898**

Material examined: Kerman province, Baft, 2♀♀, 1♂, April 2013.

General distribution: Species known from Azerbaijan, Asian Turkey and Iran.

Genus *Orthocephalus* FIEBER, 1858***Orthocephalus modarresi* LINNAVUORI, 1997**

Material examined: Kerman province, Jiroft, 1♀, May 2012.

General distribution: Endemic to Iran.

Genus *Globiceps* LEPELETIER & SERVILLE, 1825***Globiceps (Kelidocoris) fulvicollis* JAKOVLEV, 1877**

Material examined: Khorasan province, Birjand, 2♀♀, May 2012.

General distribution: West-Palaearctic species.

Genus *Orthotylus* FIEBER, 1858***Orthotylus (Melanotrichus) caviceps* WAGNER, 1971**

Material examined: Khorasan province, Mashhad, 1♂, summer 2011.

General distribution: Endemic to Iran.

***Orthotylus (Melanotrichus) hirtulus* WAGNER, 1951**

Material examined: Kerman province, Jiroft, 1♀, 2♂♂, May 2012.

General distribution: Eremian species, known from Algeria, Egypt (including Sinai), Iran, Iraq, Israel, Kuwait, Oman, Saudi Arabia and Tunisia.

***Orthotylus (Melanotrichus) pusillus* (REUTER, 1883)**

Material examined: Kerman province, Kerman, 1♀, April 2013. Khorasan province, Ferdos, 2♀♀, 1♂, summer 2012.

General distribution: Eremian species known Mediterranean subregion and Northeastern Africa.

***Orthotylus (Orthotylus) eleagni* JAKOVLEV, 1880**

Material examined: Khorasan province, Qaen, 2♂♂, October 2009.

General distribution: Species known from Azerbaijan, Iran, Kazakhstan (Asian and European parts), Kirgizia, Russia, Tadjikistan, Turkmenistan, Turkey (Asian part), Ukraine.

***Orthotylus (Orthotylus) nassatus* (FABRICIUS, 1787)**

Material examined: Khorasan province, Gonabad, 1♀, 1♂, October 2009.

General distribution: West-Palaearctic species.

Subfamily P h y l i n a e DOUGLAS & SCOTT, 1865

Genus *Hallodapus* FIEBER, 1858

***Hallodapus pilosus* (REUTER, 1882)**

Material examined: Kerman province, Sirjan, 2♀♀, 2♂♂, spring 2010. Kerman province, Jiroft, 1♂, May 2012.

General distribution: Eremian species, known from Iraq, Saudi Arabia and the Sudanese subregion.

Family P i e s m a t i d a e AMYOT & AUDINET-SERVILLE, 1843

Genus *Piesma* LEPELETIER & SERVILLE, 1825

***Piesma capitatum* (WOLFF, 1804)**

Material examined: Khorasan province, Gonabad, 2♀♀, October 2009.

General distribution: Palearctic Region.

***Piesma maculatum* (LAPORTE DE CASTELNAU, 1833)**

Material examined: Khorasan province, Ferdos, 1♂, summer 2012. Kerman province, Kerman, 1♀, April 2013.

General distribution: Palearctic Region.

Family Reduviidae LATREILLE, 1807**Subfamily Reduviinae AMYOT & SERVILE, 1843****Genus *Holotrichius* BURMEISTER, 1835*****Holotrichius apterus* JAKOVLEV, 1879**

Material examined: Kerman province, Jiroft, 1♀, 1♂, May 2012. Kerman province, Kerman, 1♂, April 2013.

General distribution: Armenia, Asian Turkey, Azerbaijan, Georgia, Russia (Daghestan).

Genus *Pasira* STÅL, 1859***Pasira basiptera* STÅL, 1859**

Material examined: Khorasan province, Mashhad, 2♂♂, summer 2011.

General distribution: Mediterranean, extending to Arabian Peninsula and Central Asia.

Genus *Reduvius* FABRICIUS, 1775***Reduvius fedtschenkianus* (OSHANIN, 1871)**

Material examined: Kerman province, Baft, 1♀, April 2013.

General distribution: Afghanistan, Iraq, Central Asia (Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan), and northwestern China.

***Reduvius jakovleffi* REUTER, 1892**

Material examined: Kerman province, Kerman, 1♀, 2♂♂, April 2013.

General distribution: Eremian: Cyprus, Egypt, Libya, Near East, Arabian Peninsula, Afghanistan.

***Reduvius testaceus* (HERRICH-SCHAEFFER, 1845)**

Material examined: Khorasan province, Mashhad, 1♀, summer 2011. Khorasan province, Ferdos, 2♀♀, 1♂, summer 2012.

General distribution: Mainly an Asian species, westward to Croatia; North Africa.

Acknowledgments

The authors are grateful to Dr. P. Moulet (France), Dr. H. Sakenin and Dr. H. Ghahari (Iran) for identification of some materials. The research was supported by Islamic Azad University (Yadegar – e- Imam Khomeini (RAH) Branch).

Zusammenfassung

Vorliegende Arbeit behandelt das Vorkommen von Wanzen (Heteroptera) in einigen östlichen Regionen des Irans. 22 Arten der Familien Alydidae, Berytidae, Largidae, Miridae, Piesmatidae und Reduviidae konnten gesammelt und identifiziert werden.

References

- AUKEMA B., RABITSCH W. & Ch. RIEGER (2013): Catalogue of the Heteroptera of the Palearctic Region. VI. Supplement. — The Netherlands Entomological Society, Amsterdam, xxiii + 629 pp.
- GHAHARI H., CARPINTERO D.L. & H. OSTOVAN (2009a): An annotated catalogue of the Iranian Anthocoridae (Hemiptera: Heteroptera: Cimicomorpha). — *Acta Entomologica Musei Nationalis Pragae* **49**: 43-58.
- GHAHARI H., CHEROT F., LINNAVUORI R.E. & H. OSTOVAN (2009b): Annotated catalogue of Iranian burrower bugs (Heteroptera, Pentatomoidea, Cydnidae). — *ZooKeys* **26**: 1-31.
- GHAHARI H., CARPINTERO D.L., MOULET P., LINNAVUORI R.E. & H. OSTOVAN (2010a): Annotated catalogue of the Iranian broad-headed bugs (Hemiptera: Heteroptera: Alydidae). — *Acta Entomologica Musei Nationalis Pragae* **50**: 425-436.
- GHAHARI H., LINNAVUORI R.E., MOULET P. & H. OSTOVAN (2010b): An annotated catalogue of the Iranian Nabidae (Hemiptera: Heteroptera). — *Acta Entomologica Musei Nationalis Pragae* **50**: 33-44.
- GHAHARI H., MONTEMAYOR S.I., MOULET P. & R.E. LINNAVUORI (2012): An annotated catalogue of the Iranian Tingidae (Hemiptera: Heteroptera). — *Zootaxa* **3207**: 22-39.
- GHAHARI H. & P. MOULET (2012): An annotated catalog of the Iranian Lygaeoidea (excluding Berytidae and Piesmatidae) (Hemiptera: Heteroptera: Pentatomomorpha). — *Zootaxa* **3408**: 1-33.
- GHAHARI H. & E. HEISS (2012): Annotated catalog of Iranian Aradidae (Hemiptera: Heteroptera: Pentatomomorpha: Aradoidea). — *Zootaxa* **3571**: 81-86.
- GHAHARI H. & P. MOULET (2013): An annotated catalog of the Iranian Pyrrhocoridae (Hemiptera: Heteroptera: Pentatomomorpha: Pyrrhocoroidea). — *Zootaxa* **3609** (3): 335-342.
- GHAHARI H., MOULET P., OSTOVAN H. & R.E. LINNAVUORI (2013a): An annotated catalog of the Iranian Dipsocoromorpha, Enicocephalomorpha, Gerromorpha, Leptopodomorpha and Nepomorpha (Hemiptera: Heteroptera). — *Zootaxa* **3641** (4): 301-342.
- GHAHARI H., MOULET P., CAI W. & J. KARIMI (2013b): An annotated catalog of the Iranian Reduvidae (Hemiptera: Heteroptera: Cimicomorpha). — *Zootaxa* **3718** (3): 201-238.
- GHAHARI H. & F. CHEROT (2014): An annotated catalog of the Iranian Miridae (Hemiptera: Heteroptera: Cimicomorpha). — *Zootaxa* **3845** (1): 1-101.
- GHAHARI H., MOULET P. & D.A. RIDER (2014): An annotated catalog of the Iranian Pentatomoidea (Hemiptera: Heteroptera: Pentatomomorpha). — *Zootaxa* **3837**(1): 1-95.
- KERZHNER I.M. (2001): Largidae, pp. xxx-xxx. In: AUKEMA B. & Ch. RIEGER (eds), Catalogue of the Heteroptera of the Palearctic Region, vol. 4: Pentatomomorpha I. — The Netherlands Entomological Society, Amsterdam, xiv + 346 pp.
- PUTSHKOV P.V. & V.G. PUTSHKOV (1996): Family Reduviidae LATREILLE, 1807, assassin bugs. — In: AUKEMA B. & Ch. RIEGER (eds), Catalogue of the Heteroptera of the Palearctic region, volume 2. Cimicomorpha I. The Netherlands Entomological Society, Amsterdam, pp. 148-265.
- SCHUH R.T. (1986): The influence of cladistics on heteropteran classification. — *Annual Review of Entomology* **31**: 67-94.

- STEHLÍK J.L. (2007): Largidae and Pyrrhocoridae (Heteroptera) of Meghalaya state, India. — *Acta Musei Moraviae, Scientiae biologicae* **92**: 115-119.
- STEHLÍK J.L. & I.M. KERZHNER (1999): On taxonomy and distribution of some Palaearctic and Oriental Largidae and Pyrrhocoridae (Heteroptera). — *Zoosystematica Rossica* **8**: 121-128.
- WEIRAUCH C. & R.T. SCHUH (2011): Systematic and Evolution of Heteroptera: 25 years of progress. — *Annual review of Entomology* **56**: 487-510.

Authors' addresses:

Najmeh SAMIN
Young Researchers and Elite Club
Science and Research Branch,
Islamic Azad University, Tehran, Iran
E-mail: n_samin63@yahoo.com

Rauno E. LINNAVUORI
Saukkokuja 10, FIN-21220 Raisio
Finland
E-mail: rauno.linnavuori@kolumbus.fi

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Linzer biologische Beiträge](#)

Jahr/Year: 2015

Band/Volume: [0047_2](#)

Autor(en)/Author(s): Samin Najmeh, Linnavuori Rauno E.

Artikel/Article: [A faunistic study on Heteroptera \(Insecta\) from some regions of Eastern Iran 1811-1817](#)