

Linzer biol. Beitr.	43/2	1285-1290	19.12.2011
---------------------	------	-----------	------------

A study on darkling beetles (Coleoptera: Tenebrionidae) from south and southeastern Iran

H. GHAHARI & M. BUNALSKI

Abstract: The fauna of four subfamilies of Tenebrionidae (Coleoptera) including, Lagriinae, Pimeliinae, Opatrinae and Tenebrioninae from south and southeastern Iran is studied in this paper. In a total twenty two species from twenty genera were collected and identified.

Key words: Coleoptera, Tenebrionidae, Darkling beetle, Fauna, Iran.

Introduction

Darkling beetles (Coleoptera: Tenebrionidae) with more than 15.000 known species are one of the most common members of the order Coleoptera. These insects can be found in desert or semidesert regions all over the world. They burrow under stones, bark and leaf litter. Many are excellent burrowers and can bury themselves in the sand in a flash to escape the scorching sun. The great majority of these insects are scavengers. In nature, they are quite content to feed on dried or rotting plant residue (MEDVEDEV 1968; NEPESOVA 1980; BOUCHARD et al. 2005). The fauna of Iranian Tenebrionidae was poorly studied so far (MODARRES AWAL 1997; GHAHARI et al. 2010a, b). The objective of this paper is faunistic study of four subfamilies of tenebrionids including, Lagriinae, Pimeliinae, Opatrinae and Tenebrioninae from some regions of south and southeastern Iran.

Materials and Methods

The specimens were collected under stones and on the ground by hand and knock down, sweeping of vegetation and pitfall trap methods from the different regions of south and southwestern Iran (including Bushehr, Fars, Hormozgan, Kerman, Sistan & Baluchestan provinces). Subfamilies and tribes were given in phylogenetic order and species were listed alphabetically within each tribe. The information concerning specific name, describer and description date, locality and date of collection, place/ plant on which the species were collected, determinant and number of species (in brackets) was given. The specimens were examined with a stereoscopic binocular microscope. Classification and nomenclature of darkling beetles suggested by WATT (1974), LAWRENCE & NEWTON (1995), IWAN (2001), SOLDATI & SOLDATI (2003) and MATTHEWS & BOUCHARD (2008) have been followed.

Results

Upon the results of this research totally 22 darkling beetles from 20 genera, 12 tribes and 4 subfamilies were collected from some regions of south and southeastern Iran as the below list:

Subfamily *L a g r i n a e*

Tribe *C o s s y p h i n i*

Genus *Cossyphus* OLIVIER 1795

Cossyphus (s.str.) *tauricus* STEVEN 1829

M a t e r i a l e x a m i n e d : Bushehr province: Brazjan, (1), under stone, May 2006.
Kerman province: Rafsanjan, (2), October 2006.

Tribe *B e l o p i n i*

Genus *Centorus* MULSANT 1854

Centorus turcicus (KASZAB 1959)

M a t e r i a l e x a m i n e d : Kerman province: Sirjan, (1), under stone, October 2006.

Subfamily *P i m e l i i n a e*

Tribe *T e n t y r i n i*

Genus *Calyptopsis* SOLIER 1835

Calyptopsis capnisiformis REITTER 1903

M a t e r i a l e x a m i n e d : Fars province: Lar, (1), November 2004.

Genus *Dailognatha* ESCHSCHOLTZ 1829

Dailognatha crenata REICHE ET SAULCY 1857

M a t e r i a l e x a m i n e d : Sistan & Baluchestan province: Khash, (1), May 2005.

Genus *Tentyria* LATREILLE 1802

Tentyria wiedemanni MENETRIES 1838

M a t e r i a l e x a m i n e d : Fars province: Jahrom, (1), on the ground, May 2008.

Tribe S t e n o s i n i

Genus *Stenosis* HERBST 1799

***Stenosis sulcata* MILLER 1861**

M a t e r i a l e x a m i n e d : Bushehr province: Brazjan, (1), under stone, May 2006.

Tribe P i m e l i i n i

Genus *Pachyscelis* SOLIER 1836

***Pachyscelis musiva* MENETRIES 1832**

M a t e r i a l e x a m i n e d : Sistan & Baluchestan province: Zabol, (2), on the ground,
November 2007.

Genus *Pimelia* FABRICIUS 1775

***Pimelia (Eurypimelia) testudo* KRAATZ 1865**

M a t e r i a l e x a m i n e d : Hormozgan province: Haji-Abad, (1), March 2005.

***Pimelia (Eurypimelia) timarchoides* MENETRICS 1836**

M a t e r i a l e x a m i n e d : Fars province: Jahrom, (1), on the ground, May 2008.

Genus *Trachyderma* LATREILLE 1829

***Trachyderma lima* (PETAGNA 1819)**

M a t e r i a l e x a m i n e d : Fars province: Darab, (1), April 2007.

Subfamily O p a t r i n a e

Tribe D e n d a r i n i

Genus *Dendarus* DEJEAN 1821

***Dendarus (Pandarinus) armeniacus* BAUDI 1876**

M a t e r i a l e x a m i n e d : Kerman province: Kahnooj, (2), on the ground, November 2008.

***Dendarus (Pandarinus) dalmatinus* GERMAR 1824**

M a t e r i a l e x a m i n e d : Hormozgan province: Minab, (2), March 2005.

Tribe P e d i n i n i

Genus *Colpotus* MULSANT & REY 1853

***Colpotus sulcatus asiaticus* KOCH 1944**

M a t e r i a l e x a m i n e d : Sistan & Baluchestan province: Saravan, (1), on the ground, October 2007.

Genus *Pedinus* LATREILLE 1796

***Pedinus* (s.str.) *quadratus* BRULLÉ 1832**

M a t e r i a l e x a m i n e d : Kerman province: Rafsanjan, (1), on the ground, October 2006.

Tribe O p a t r i n i

Genus *Lobodera* MULSANT & REY 1859

***Lobodera* (*Penthomegus*) *iners* MÉNÉTRIÉS 1832**

M a t e r i a l e x a m i n e d : Fars province: Darab, (1), on *Astragalus* sp., April 2007.

Genus *Opatroides* BRULLÉ 1832

***Opatroides curtulus* FAIRMAIRE 1892**

M a t e r i a l e x a m i n e d : Sistan & Baluchestan province: Saravan, (1), on weeds, October 2007

Genus *Opatrum* FABRICIUS 1775

***Opatrum* (s.str.) *sabulosum* (LINNAEUS 1761)**

M a t e r i a l e x a m i n e d : Bushehr province: Brazjan, (1), under stone, May 2006. Kerman province: Kahnooj, (2), on weeds, November 2008.

Subfamily T e n e b r i o n i n a e

Tribe B l a p t i n i

Genus *Blaps* FABRICIUS 1775

***Blaps jeannei* FERRER & SOLDATI 1999**

M a t e r i a l e x a m i n e d : Kerman province: Kerman, (2), under stone, October 2008.

Tribe Helopini

Genus *Probaticus* SEIDLITZ 1896

***Probaticus (Pelorinus) corrugatus* SEIDLITZ 1896**

Material examined: Fars province: Eghlid, (3), on *Laurus* sp., April 2008.

Genus *Raiboscelis* ALLARD 1876

***Raiborcelis coelestinus* (WALTL 1838)**

Material examined: Sistan & Baluchestan province: Nikshahr, (1), October 2005.
Kerman province: Sirjan, (2), October 2006.

Tribe Cylindronotini

Genus *Cylindronotus* FALDERMANN 1837

***Cylindronotus (Odocnemis) tuberculiger* REICHE 1857**

Material examined: Sistan & Baluchestan province: Nikshahr, (2), on the ground,
November 2007.

Tribe Tribolini

Genus *Tribolium* MACLEAY 1825

***Tribolium (Eusomostene) confusum* JACQUELIN DE VAL 1868**

Material examined: Kerman province: Kahnooj, (2), light trap, November 2008.

Acknowledgments

The authors are indebted to Dr. D. Makhan of the Netherlands, Dr. V. Tichy of Czech Republic and Dr. H. Ostovan for invaluable helps in progress of the project. The research was supported by Shahre Rey Islamic Azad University and University of Life Sciences of Poland.

Zusammenfassung

In vorliegender Studie wurde die Fauna von 4 Unterfamilien von Tenebrionidae (Coleoptera) einschließlich Lagriinae, Pimeliinae, Opatrinae und Tenebrioninae aus dem südlichen und südöstlichen Iran untersucht. Insgesamt konnten 22 Arten aus 20 Gattungen nachgewiesen werden.

References

- BOUCHARD P., LAWRENCE J.F., DAVIES A.E. & A.F. NEWTON (2005): Synoptic classification of the world Tenebrionidae (Insecta: Coleoptera) with a review of family-group names. — *Annales Zoologici (Warszawa)* **55**: 499-530.
- GHAHARI H., BUNALSKI M., TABARI M. & H. OSTOVAN (2010a): Contribution to the knowledge of darkling beetles (Coleoptera: Tenebrionidae) from Iranian rice fields and surrounding grasslands. — *Polish Journal of Entomology* **79** (1): 81-90.
- GHAHARI H., BUNALSKI M., HAVASKARY M., OSTOVAN H. & N. SAMIN (2010b): Contributions to the knowledge the darkling beetles (Coleoptera: Tenebrionidae) of Arasbaran, Northwestern Iran. — *Polish Journal of Entomology* **79** (4): 463-468.
- IWAN D. (2001): A comparative study of male genitalia in Opatrinae sensu Medvedev (1968) (Coleoptera, Tenebrionidae) with notes on the tribal classification. Part I. — *Annales Zoologici (Warszawa)* **51** (3): 351-390.
- LAWRENCE J.F. & A.F. NEWTON (1995): Families and subfamilies of Coleoptera with selected genera, notes, references and data on family-group names. 779-1006. — In: *Biology, Phylogeny and Classification of Coleoptera. Papers celebrating the 80th birthday of Prof. Roy A. Crowson* (Eds. J. Pakaluk & S. A. Slipinsky). — PAN, Museum and Institute of Zoology, Warszawa, 1092 pp.
- MATTHEWS E.G. & P. BOUCHARD (2008): Tenebrionidae of Australia. Descriptions of tribes. Keys to genera. Catalogue of species. — *Australian Biological Resources Study*, Canberra, viii + 398 pp.
- MEDVEDEV G.S. (1968): Coleoptera, vol. 19, No. 2: Tenebrionidae. Subfamily Opatrinae, tribes Platynotini, Dendarini, Pedinini, Dissonomini, Pachypterini, Opatrini (part) and Heterotarsini, Fauna of the USSR. — *New Series*, No. 97. Leningrad, 285 pp.
- MODARRES AWAL M. (1997): Family Tenebrionidae, pp. 195-197. — In: (ed.), *List of agricultural pests and their natural enemies in Iran*. Ferdowsi University Press, 497 pp.
- NEPESOVA M.G. (1980): Tenebrionid beetles of Turkmenia (biology and ecology). — *Ashkhabad Publication*, 211 pp.
- SOLDATI F. & L. SOLDATI (2003): Réactualisation de la liste systématique des Coléoptères Tenebrionidae (Alleculinae exclus) de France continentale et de Corse. — *Bulletin Mensuel de la Société Linnéenne de Lyon* **72** (10): 331-349.
- WATT J.C. (1974): A revised subfamily classification of Tenebrionidae (Coleoptera). — *New Zealand Journal of Zoology* **1**: 381-452.

Author's addresses: Hassan GHAHARI
Department of Agriculture
Shahre Rey Branch, Islamic Azad University
IR-Tehran, Iran
E-mail: hghahari@yahoo.com

Marek BUNALSKI
Department of Entomology, University of Life Sciences
Dabrowskiego 159, PL-60-594 Poznan, Poland
E-mail: bunalski@au.poznan.pl

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

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

Jahr/Year: 2011

Band/Volume: [0043_2](#)

Autor(en)/Author(s): Ghahari Hassan, Bunalski Marek

Artikel/Article: [A study on darkling beetles \(Coleoptera: Tenebrionidae\) from south and southeastern Iran 1285-1290](#)