



Entomofauna

ZEITSCHRIFT FÜR ENTOMOLOGIE

Band 34, Heft 27: 625-636

ISSN 0250-4413

Ansfielden, 2. Januar 2013

On a collection of longhorn beetles (Coleoptera: Cerambycidae) from Iran

J. RASTEGAR, A. HADIAN, M. HAVASKARY & A. RAFEII

Abstract

This paper included data collection of 50 species of Cerambycidae (Coleoptera) from different regions of Iran. The studied materials were in five subfamilies including, Aseminae (1 species), Cerambycinae (14 species), Lamiinae (27 species), Lepturinae (7 species), Prioninae (1 species).

Key words: Coleoptera, Longhorn beetles, Cerambycidae, Fauna, Iran.

Zusammenfassung

Vorliegende Arbeit behandelt das Vorkommen von 50 Cerambyciden-Arten (Coleoptera: Cerambycidae) (Aseminae (1 species), Cerambycinae (14 species), Lamiinae (27 species), Lepturinae (7 species), Prioninae (1 species), aufgesammelt in verschiedenen Teilen des Irans.

Introduction

Wood is an important component of human life. In recent years, the consumption and trade of forest products has increased substantially and is projected to further increase in the years ahead (HICKS 2001). Forest stands are the main source of wood products. Global demand for wood is expected to reach 5.6 billion m³ in 2020. This demand can not be met by natural forests alone. Some alternative sources, such as commercial plantations, may close this gap between the demand and supply of wood. Importation and exportation of forest products are used by nations to close this gap. The increasing volume of the global trade of forest products has dramatically increased the likelihood of the introduction of exotic pests into non-infested regions throughout the world. Many countries have suffered from the unintentional introduction of exotic forest pests especially longhorn beetles (Coleoptera: Cerambycidae), which have caused enormous economic losses in their newly exploited ecosystems (COULSON & WITTER 1984; CREFFIELD 1996; AKBULUT et al. 2008). Longhorn beetles are xylophagous and phytophagous. Larvae of longhorn beetles develop in plant tissues. Most of the beetles are wood-boring in the larval stage and many species are very destructive to shaded forest fruit trees and to freshly cut logs. They have larval tunnels in the wood (both living and dead plants). Different species attack different types of trees and shrubs. A few will attack living trees, but most species appear to prefer freshly cut logs or weakened and dying trees or branches. Larvae pupate either in host plants or in soil. Adults of the longhorn beetles can be found on flowers, leaves, wood, herbs etc (DANILEVSKY & MIROSHNIKOV 1985; SVACHA & DANILEVSKY 1986; OZDIKMEN & CAGLAR 2001).

Materials and Methods

The specimens were collected by using fermenting bait traps (TEZCAN & CAN 2009). For this purpose, a total of 4 fermenting bait traps were hung in each orchard. The traps were charged with a mixture containing wine (100 ml), water (900 ml), sugar (25 g), and vinegar (25 ml). The traps were checked for the presence of beetles weekly intervals. In this paper the classification and nomenclature of the longhorn beetles suggested by BENSE (1995), ALTHOFF & DANILEVSKY (1997) and DANILEVSKY (2002) are followed. Within the genera the species are listed alphabetically.

Results

Totally 50 longhorn beetles from 25 genera (*Arhopalus* SERVILLE, *Icosium* LUCAS, *Leioderes* L. REDTENBACHER, *Cerambyx* LINNAEUS, *Cholorophorus* CHEVROLAT, *Clytus* LAICHARTING, *Neoplagonotus* KASATKIN, *Plagonotus* MULSANT, *Xylotrechus*

CHEVROLAT, *Glaphyra* NEWMAN, *Purpuricenus* DEJEAN, *Agapanthia* SERVILLE, *Dorcadion* DALMAN, *Iberodorcadion* BREUNING, *Neodorcadion* GANGLBAUER, *Oberea* DEJEAN, *Oxyilia* MULSANT, *Phytoecia* DEJEAN, *Saperda* FABRICIUS, *Anastrangalia* CASEY, *Pachytodes* PIC, *Pedostrangalia* SOKOLOV, *Stictoleptura* CASEY, *Vadonia* MULSANT, *Rhaesus* MOTSCHULSKY) are listed as the fauna of Iran in this paper as below.

Material

Subfamily A s e m i n a e

Tribe A s e m i n i

Genus *Arhopalus* SERVILLE 1834

Arhopalus syriacus (REITTER 1895)

M a t e r i a l e x a m i n e d : Markazi province: Arak, 2 specimens, June 2009.

Subfamily C e r a m b y c i n a e

Tribe A c h r y s o n i n i

Genus *Icosium* LUCAS 1854

Icosium tomentosum LUCAS 1854

M a t e r i a l e x a m i n e d : Ardabil province: Meshkinshahr, 1 specimen, fall 2006.

Tribe C a l l i d i n i

Genus *Leioderes* L. REDTENBACHER 1849

Leioderes tuerki GANGLBAUER 1885

M a t e r i a l e x a m i n e d : Hamadan province: Goltappeh, Malayer, 4 specimens, spring 2007.

Genus *Ropalopus* MULSANT 1839

Ropalopus clavipes (FABRICIUS 1775)

M a t e r i a l e x a m i n e d : Chaharmahal & Bakhtiari province: Farsan, 1 specimen, summer 2007.

Tribe C e r a m b y c i n i

Genus C e r a m b y x LINNAEUS 1758

Cerambyx (Cerambyx) miles BONELLI 1812

M a t e r i a l e x a m i n e d : Ardabil province: Meshkinshahr, Bileh-Savar, Germi, 5 specimens, fall 2006. Hamadan province: Toyserkan, spring 2007.

Cerambyx (Microcerambyx) scopolii FUESSLY 1775

M a t e r i a l e x a m i n e d : Qazvin province: Razan, 2 specimens, April 2009.

Tribe C l y t i n i

Genus C h o l o r o p h o r u s CHEVROLAT 1863

Cholorophorus nivipictus (KRAATZ 1879)

M a t e r i a l e x a m i n e d : Kordestan province: Ghorveh, Snandaj, 3 specimens, spring 2008.

Genus C l y t u s LAICHARTING 1784

Clytus ciliciensis (CHEVROLAT 1863)

M a t e r i a l e x a m i n e d : Kermanshah province: Hersin, 1 specimen, May 2008.

Genus N e o p l a g i o n o t u s KASATKIN 2005

Neoplacionotus bobelayei (BRULLÉ 1832)

M a t e r i a l e x a m i n e d : East Azarbayjan province: Bostan-Abad, 4 specimens, August 2008.

Genus P l a g i o n o t u s MULSANT 1842

Placionotus (Echinocerus) floralis (PALLAS 1773)

M a t e r i a l e x a m i n e d : Ardabil province: Khalkhal, 1 specimen, fall 2006.

Genus X y l o t r e c h u s CHEVROLAT 1860

Xylotrechus (Xylotrechus) rusticus (LINNAEUS 1758)

M a t e r i a l e x a m i n e d : East Azarbayjan province: Bostan-Abad, 1 specimen, August 2008.

Tribe M o l o r c h i n i

Genus G l a p h y r a NEWMAN 1840

Glaphyra kiesenwetteri hircus (ABEILLE DE PERRIN 1881)

M a t e r i a l e x a m i n e d : Zanjan province: Abhar, Zanjan, 8 specimens, unknown date.

***Glaphyra umbellatarum* (SCHREBER 1759)**

Material examined: Kordestan province: Bijar, 2 specimens, October 2010.

Tribe Purpuricenini

Genus *Purpuricenus* DEJEAN 1821

***Purpuricenus dalmatinus* STURM 1843**

Material examined: Kermanshah province: Kermanshah, 4 specimens, April 2008.

***Purpuricenus wachanrui* LEVRAT 1858**

Material examined: Hamadan province: Firoozan, 1 specimen, spring 2007.

Subfamily Lamiinae

Tribe Agapanthiini

Genus *Agapanthia* SERVILLE 1835

***Agapanthia (Agapanthia) cardui* (LINNAEUS 1767)**

Material examined: Khorasan province: Ghoochan, Bojnord, 6 specimens, March 2009.

***Agapanthia (Smaragdula) lais* REICHE & SAULCY 1858**

Material examined: Kermanshah province: Javanrood, Paveh, 4 specimens, May 2008.

***Agapanthia (s.str.) suturalis* (FABRICIUS 1787)**

Material examined: Ilam province: Badreh, 1 specimen, spring 2006.

Tribe Dorcadiini

Genus *Dorcadio* DALMAN 1817

***Dorcadio (Cribridorcadion) anatolicum* PIC 1900**

Material examined: Kordestan province: Baneh, Bijar, 3 specimens, October 2010.

***Dorcadio (Cribridorcadion) auratum* TOURNIER 1872**

Material examined: Chaharmahal & Bakhtiari province: Farsan, 2 specimens, summer 2007.

***Dorcadio (Cribridorcadion) bisignatum* JAKOVLEV 1899**

Material examined: Kermanshah province: Javanrood, Hersin, Kermanshah, 8 specimens, April 2008.

***Dorcadio (Cribridorcadion) carinipenne* PIC 1900**

Material examined: West Azarbaijan province: Khoy, 5 specimens, July 2009.

***Dorcadion (Cribridorcadion) dimidiatum* MOTSCHULSKY 1838**

M a t e r i a l e x a m i n e d : Markazi province: Arak, 3 specimens, June 2009.

***Dorcadion (Cribridorcadion) hampii* MULSANT & REY 1863**

M a t e r i a l e x a m i n e d : East Azarbayjan province: Mianeh, Tabriz, 4 specimens, August 2008.

***Dorcadion (Cribridorcadion) infernale* MULSANT & REY 1863**

M a t e r i a l e x a m i n e d : Fars province: Kazeroon, 1 specimen, October 2004.

***Dorcadion (Cribridorcadion) ledereri* THOMSON 1865**

M a t e r i a l e x a m i n e d : Markazi province: Arak, 2 specimens, June 2009. Ilam province: Darrehshahr, 1 specimen, March 2010.

***Dorcadion (Cribridorcadion) merkli* GANGLBAUER 1884**

M a t e r i a l e x a m i n e d : Kermanshah province: Sahneh, 4 specimens, May 2008.

***Dorcadion (Cribridorcadion) preissi* HEYDEN 1894**

M a t e r i a l e x a m i n e d : Isfahan province: Najaf-Abad, 3 specimens, April 2005. West Azarbaijan province: Khoy, 1 specimen, July 2009.

***Dorcadion (Cribridorcadion) robustum* GANGLBAUER 1884**

M a t e r i a l e x a m i n e d : Guilan province: Astara, 1 specimen, September 2006.

***Dorcadion (Cribridorcadion) schultzei* HEYDEN 1894**

M a t e r i a l e x a m i n e d : Zanjan province: Mahnwshan, 1 specimen, spring 2007.

***Dorcadion (Cribridorcadion) sturmi* FRIVALDSKY 1837**

M a t e r i a l e x a m i n e d : Kerman province: Jiroft, 3 specimens, March 2005.

***Dorcadion (Cribridorcadion) wagneri* KÜSTER 1846**

M a t e r i a l e x a m i n e d : West Azarbayjan province: Khoy, 5 specimens, July 2009.

Genus *Iberodorcadion* BREUNING 1943

***Iberodorcadion (Iberodorcadion) fuliginator* (LINNAEUS 1758)**

M a t e r i a l e x a m i n e d : Tehran province: Karaj, 7 specimens, April 2005.

Genus *Neodorcadion* GANGLBAUER 1883

***Neodorcadion laqueatum* (WALTL 1838)**

M a t e r i a l e x a m i n e d : Qazvin province: Takestan, 3 specimens, April 2009.

***Neodorcadion virleti* (BRULLÉ 1832)**

M a t e r i a l e x a m i n e d : Ilam province: Badreh, Mehran, 6 specimens, spring 2006.

Tribe *P h y t o e c i i n i*

Genus *O b e r e a* DEJEAN 1835

Oberea (Amaurostoma) erythrocephala (SCHRANK 1776)

M a t e r i a l e x a m i n e d : West Azarbayjan province: Sardasht, 1 specimen, June 2003.

Genus *O x y l i a* MULSANT 1863

Oxyilia argentata languida (MÉNÉTRIÉS 1839)

M a t e r i a l e x a m i n e d : Khorasan province: Ghoochan, 3 specimens, March 2009.

Genus *P h y t o e c i a* DEJEAN 1835

Phytoecia (Helladia) adelpha GANGLBAUER 1886

M a t e r i a l e x a m i n e d : West Azarbayjan province: Ourmieh, 1 specimen, June 2003.

Phytoecia (Opsilia) coerulescens (SCOPOLI 1763)

M a t e r i a l e x a m i n e d : Tehran province: Shahreyar, 1 specimen, fall 2006.

Phytoecia cylindrica (LINNAEUS 1758)

M a t e r i a l e x a m i n e d : Guilan province: Astara, 4 specimens, September 2006.

Phytoecia (s.str.) *virgula* (CHARPENTIER 1825)

M a t e r i a l e x a m i n e d : West Azarbayjan province: Khoy, 4 specimens, unknown date.

Tribe *S a p e r d i n i*

Genus *S a p e r d a* FABRICIUS 1775

Saperda (Compsidia) quercus ocellata ABEILLE DE PERRIN 1895

M a t e r i a l e x a m i n e d : Guilan province: Roodbar, 1 specimen, September 2006.

Subfamily *L e p t u r i n a e*

Tribe *L e p t u r i n i*

Genus *A n a s t r a n g a l i a* CASEY 1924

Anastrangalia dubia dubia (SCOPOLI 1763)

M a t e r i a l e x a m i n e d : Markazi province: Arak, 1 specimen, June 2009.

Genus *P a c h y t o d e s* PIC 1891

Pachytodes erraticus erraticus (DALMAN 1817)

M a t e r i a l e x a m i n e d : Kermanshah province: Hersin, 2 specimens, May 2008.

Genus *Pedostrangalia* SOKOLOV 1896

***Pedostrangalia (Neosphenalia) verticalis* (GERMAR 1822)**

Material examined: Lorestan province: Aligoodarz, 4 specimens, fall 2009.

***Pedostrangalia (Sphenalia) verticenigra* (PIC 1892)**

Material examined: Ardabil province: Ardabil, Bilehsavar, 7 specimens, fall 2006.

Genus *Stictoleptura* CASEY 1924

***Stictoleptura excisipes* (DANIEL 1891)**

Material examined: Chaharmahal & Bakhtiari province: Farsan, 1 specimen, summer 2007.

***Stictoleptura tripartita* (HEYDEN 1889)**

Material examined: Markazi province: Arak, 4 specimens, June 2009.

Genus *Vadonia* MULSANT 1863

***Vadonia unipunctata unipunctata* (FABRICIUS 1787)**

Material examined: Kordestan province: Ghorveh, 3 specimens, spring 2008.

Subfamily *Prioninae*

Tribe *Remphanini*

Genus *Rhaesus* MOTSCHULSKY 1875

***Rhaesus serricollis* (MOTSCHULSKY 1838)**

Material examined: Chaharmahal & Bakhtiari province: Farsan, 5 specimens, summer 2007.

Acknowledgements

The authors are thanks to M. Danilevsky and A. Lobanov of Russia, J.E. Wappes (American Coleoptera Museum), J.A. Chemsak (Essig Museum of Entomology, University of California, USA), M.A. Monne (Universidade Federal do Rio de Janeiro, Brazil), W. Lu (Massey University of New Zealand), A.M. Ray (University of Illinois at Urbana-Champaign, USA) for sending the necessary papers especially identification keys and helping to progress the project. The research was supported by Islamic Azad University, Khoy, Garmsar and Damghan Branches.

References

- AKBULUT S., KETEN A. & B. YUKSEL (2008): Wood destroying insects in Düzce Province. – Turkish J. Zool. **32**: 343-350.
- ALTHOFF J. & M.L. DANILEVSKY (1997): A check-list of longicorn beetles (Coleoptera, Cerambycoidea) of Europe. – Slovensko Entomološko Društvo Štefana Michielija, Ljubljana, 64 pp.
- BENSE U. (1995): Longhorn beetles: Illustrated key to the Cerambycidae and Vesperidae of Europe. – Margraf Verlag, Weikersheim, Germany.
- COULSON R.N. & J.A. WITTER (1984): Forest entomology: ecology and management. – John Wiley & Sons. Inc., New York.
- CREFFIELD J.W. (1996): Wood-destroying insects: wood borers and termites. – CSIRO Publishing, Australia.
- DANILEVSKY M.L. (2002): Systematic list of longicorn beetles (Cerambycoidea) of the territory of the former USSR (on the base of "Systematic list of longicorn beetles of the USSR" by A.L. Lobanov, M.L. Danilevsky, S.V. Murzin, 1981, and computer databases by A.L. Lobanov, 1979-1990). – Last updated: December 18, 2001. <http://www.zin.ru/Animalia/Coleoptera/eng/dbase30.htm>
- DANILEVSKY M.L. & A.I. MIROSHNIKOV (1985): The longicorn beetles of the Caucasus (Coleoptera, Cerambycidae). – A Key-Book, Krasnodar, 417 pp.
- HICKS C.M. (2001): Exotic pest and international trade. Online Workshop on Exotic Pests. – American Phytopathological Society, 4 pp.
- OZDIKMEN H. & U. CAGLAR (2001): Contribution to the knowledge of longhorned beetles (Coleoptera, Cerambycidae) from Turkey subfamilies Prioninae, Lepturinae, Spondylidinae and Cerambycinae. – J. Entomol. Res. Soc. **6** (1): 39-69.
- SVACHA P. & M.L. DANILEVSKY (1986): Cerambycid larvae of Europe and Soviet Union (Coleoptera, Cerambycoidea), Part I, – Acta Universitatis Carolinae, Biologica **30**: 1-176.
- TEZCAN S. & P. CAN (2009): A note on bait trap collected Longhorn Beetles (Cerambycidae) of western Turkey. – Munis Entomol. & Zool. **4** (1): 25-28.

Author's addresses:

Jinoos RASTEGAR

Department of Entomology, Garmsar Branch

Islamic Azad University, Semnan, Iran

E-mail: jinoos.rastegar@yahoo.com

Alireza HADIAN

Department of Plant Protection, Damghan Branch

Islamic Azad University, Semnan, Iran

E-mail: hadian110@yahoo.com

Mohammad HAVASKARY

Young Research Club, Central Tehran Branch

Islamic Azad University, Tehran, Iran

E-mail: m_havaskary@yahoo.com

Aras RAFEII

Department of Biology, Faculty of Basic Science

Tehran Central Branch, Islamic Azad University

Tehran, Iran

Entomofauna im Internet

Seit 2006 besteht die Möglichkeit, sämtliche Inhaltsverzeichnisse der Zeitschrift Entomofauna auch im Internet einzusehen.

Alle publizierten Artikel, mit Ausnahme jener der sechs neuesten Bände, sind zudem unter <http://www.landesmuseum.at/datenbanken/digilit/?serienr=1616> als

pdf-Files kostenlos downloadbar.

Neuere Arbeiten können mit einem Seitenpreis von 10 Cent mit Kreditkartenabbuchung downgeloadet werden. Dies gilt auch für die meisten Supplementbände, die unter <http://www.landesmuseum.at/datenbanken/digilit/?serienr=70> beziehbar sind.

Zur gezielten Suche nach einzelnen Artikeln, Autoren oder in eingeschränkten Zeiträumen, besuchen Sie die Website www.zobodat.at, hier lassen sich unter dem Menüpunkt "Publikationen" verschiedenste Recherchen durchführen. Der Datenbestand beschränkt sich dabei nicht nur auf die Zeitschrift Entomofauna, sondern berücksichtigt eine riesige Anzahl von in Österreich veröffentlichten Arbeiten, mehr als 75.000 pdfs, insgesamt über 1.300.000 Seiten (<http://www.landesmuseum.at/datenbanken/digilit/>). Ebenso auf www.zobodat.at lassen sich biografische Angaben, zum Teil auch Bildmaterial, zu vorwiegend österreichischen Entomologen darstellen. Die Möglichkeiten zum Abfragen im tiergeografischen Datenbestand sind ohne autorisierten Zugang mittels Passwort allerdings nur eingeschränkt möglich.

Haben Sie Interesse, die Zeitschrift Entomofauna zu abonnieren?

Die Zeitschrift "Entomofauna" erscheint seit Januar 1980 mit einem Umfang von ca. 500 Seiten pro Jahr. Sie dient der Veröffentlichung von wissenschaftlichen Arbeiten über Taxonomie, Faunistik, Biologie und Ökologie aus dem Gesamtbereich der Entomologie und Literaturbesprechungen. Die meisten Beiträge sind in deutscher Sprache verfasst, einige in Englisch und nur wenige in anderen Sprachen. Fast jede Arbeit wird als separates Heft herausgegeben. Die einzelnen Hefte eines Jahrgangs erscheinen in zwangloser Folge. Den Jahrgangsabschluss bildet das Titelheft mit dem Inhaltsverzeichnis und den neu beschriebenen Taxa sowie den taxonomischen Veränderungen. Supplemente werden nach Bedarf herausgegeben. Das Format beträgt 16 x 22 cm. Die redaktionelle Bearbeitung und Layoutierung erfolgt in München und Linz. Zu beziehen ist die Zeitschrift über Maximilian Schwarz (maximilian.schwarz@liwest.at) oder im Schriftentausch über Thomas Witt (thomas@witt-thomas.de). Der Abonnementpreis beträgt: € 32,- pro Jahrgang. Supplementbände sind im Abonnementpreis nicht enthalten, die Kosten dafür richten sich nach Umfang und Ausstattung der Bände.

Fritz GUSENLEITNER

Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich:

Maximilian SCHWARZ, Konsulent f. Wissenschaft der Oberösterreichischen Landesregierung, Eibenweg 6, A-4052 Ansfelden, E-Mail: maximilian.schwarz@liwest.at.

Redaktion: Erich DILLER, ZSM, Münchhausenstraße 21, D-81247 München;
Roland GERSTMEIER, Lehrstuhl f. Tierökologie, H.-C.-v.-Carlowitz-Pl. 2, D-85350 Freising
Fritz GUSENLEITNER, Lungitzerstr. 51, A-4222 St. Georgen/Gusen;
Wolfgang SPEIDEL, MWM, Tengstraße 33, D-80796 München;
Thomas WITT, Tengstraße 33, D-80796 München.

Adresse: Entomofauna, Redaktion und Schriftentausch c/o Museum Witt, Tengstr. 33, 80796 München, Deutschland, E-Mail: thomas@witt-thomas.com; Entomofauna, Redaktion c/o Fritz Gusenleitner, Lungitzerstr. 51, 4222 St. Georgen/Gusen, Austria, E-Mail: f.gusenleitner@landesmuseum.at

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 2013

Band/Volume: [0034](#)

Autor(en)/Author(s): Rastegar Jinoos, Hadian Alireza, Havaskary Mohammad, Rafeii Aras

Artikel/Article: [On a collection of longhorn beetles \(Coleoptera: Cerambycidae\) from Iran 625-636](#)