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

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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 *Cerambycini*

Genus *Cerambyx* LINNAEUS 1758

Cerambyx (Cerambyx) miles BONELLI 1812

Material examined: Ardabil province: Meshkinshahr, Bileh-Savar, Germi, 5 specimens, fall 2006. Hamadan province: Toyserkan, spring 2007.

Cerambyx (Microcerambyx) scopolii FUESSLY 1775

Material examined: Qazvin province: Razan, 2 specimens, April 2009.

Tribe *Clytini*

Genus *Cholorophorus* CHEVROLAT 1863

Cholorophorus nivipictus (KRAATZ 1879)

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

Genus *Clytus* LAICHARTING 1784

Clytus ciliciensis (CHEVROLAT 1863)

Material examined: Kermanshah province: Hersin, 1 specimen, May 2008.

Genus *Neoplacionotus* KASATKIN 2005

Neoplacionotus bobelayei (BRULLÉ 1832)

Material examined: East Azarbayjan province: Bostan-Abad, 4 specimens, August 2008.

Genus *Placionotus* MULSANT 1842

Placionotus (Echinocerus) floralis (PALLAS 1773)

Material examined: Ardabil province: Khalkhal, 1 specimen, fall 2006.

Genus *Xylotrechus* CHEVROLAT 1860

Xylotrechus (Xylotrechus) rusticus (LINNAEUS 1758)

Material examined: East Azarbayjan province: Bostan-Abad, 1 specimen, August 2008.

Tribe *Molorchini*

Genus *Glaphyra* NEWMAN 1840

Glaphyra kiesenwetteri hircus (ABEILLE DE PERRIN 1881)

Material examined: Zanjan province: Abhar, Zanjan, 8 specimens, unknown date.

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

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

Tribe Purpuriceniini

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 *Dorcadion* DALMAN 1817

***Dorcadion (Cribridorcadion) anatolicum* PIC 1900**

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

***Dorcadion (Cribridorcadion) auratum* TOURNIER 1872**

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

***Dorcadion (Cribridorcadion) bisignatum* JAKOVLEV 1899**

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

***Dorcadion (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 *Phytoecini*

Genus *Oberea* DEJEAN 1835

Oberea (Amaurostoma) erythrocephala (SCHRANK 1776)

Material examined: West Azarbayjan province: Sardasht, 1 specimen, June 2003.

Genus *Oxyliia* MULSANT 1863

Oxyliia argentata languida (MÉNÉTRIÉS 1839)

Material examined: Khorasan province: Ghoochan, 3 specimens, March 2009.

Genus *Phytoecia* DEJEAN 1835

Phytoecia (Helladia) adelpha GANGLBAUER 1886

Material examined: West Azarbayjan province: Ourmieh, 1 specimen, June 2003.

Phytoecia (Opsilia) coerulescens (SCOPOLI 1763)

Material examined: Tehran province: Shahreyar, 1 specimen, fall 2006.

Phytoecia cylindrica (LINNAEUS 1758)

Material examined: Guilan province: Astara, 4 specimens, September 2006.

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

Material examined: West Azarbayjan province: Khoy, 4 specimens, unknown date.

Tribe *Saperdini*

Genus *Saperda* FABRICIUS 1775

Saperda (Compsidia) quercus ocellata ABEILLE DE PERRIN 1895

Material examined: Guilan province: Roodbar, 1 specimen, September 2006.

Subfamily *Lepturinae*

Tribe *Lepturini*

Genus *Anastrangalia* CASEY 1924

Anastrangalia dubia dubia (SCOPOLI 1763)

Material examined: Markazi province: Arak, 1 specimen, June 2009.

Genus *Pachytodes* PIC 1891

Pachytodes erraticus erraticus (DALMAN 1817)

Material examined: 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.

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