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Research Directorship, Ankara, Turkey (Coleoptera, Cerambycidae)

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PAGES: 1-8

ORIGINAL PDF URL: <https://dergipark.org.tr/tr/download/article-file/83008>

Longhorned Beetles Collection of the Entomology Museum of Central Anatolia Forestry Research Directorate, Ankara, Turkey (Coleoptera, Cerambycidae)

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Received:05.01.2005 Accepted:07.10.2005

ABSTRACT

In the present paper, specimens of Cerambycidae were examined in the Entomology Museum of Central Anatolia Forestry Research Directorate, Ankara, Turkey. As a result of identification of these specimens, thirty-eight species and two subspecies belonging to twenty-eight genera of five subfamilies were determined. With this paper, new faunistic data and some zoogeographical evaluations were presented on longhorned beetles fauna (Coleoptera, Cerambycidae) of Turkey. The faunistic data in the present paper on almost all species add to knowledge on their distribution in Turkey.

Key words: *Prioninae, Lepturinae, Spondylidinae, Cerambycinae, Lamiinae, Cerambycidae, Coleoptera, Turkey*

1. INTRODUCTION

The longhorn beetles or Cerambycidae are classified together with Chrysomelidae and Bruchidae in the superfamily Chrysomeloidea of the order Coleoptera. But, some authors recognized Cerambycidae as a separate superfamily Cerambycoidea. Cerambycidae sensu stricto is divided into several subfamilies. These are Parandrinae, Prioninae, Lepturinae, Necydalinae, Spondylidinae, Apatophyseinae, Cerambycinae and Lamiinae. Parandrinae are not represented in Turkey. The subfamilies Apatophyseinae and Necydalinae are represented with only a few species in Turkey.

All the members of longhorn beetles are xylophagous and phytophagous. Most of them are pests on the cultivated plants. Because of this situation, it is an important subject in forestial and agricultural entomology. However, the studies on fauna, systematic, biology and ecology of species in the family are insufficient. Also it is impossible to mention that a planned faunistic study has been made in Turkey. Most of

the studies that have been done include a list of species in some local areas or pests on forest trees and cultivated plants. Especially since the last century, studies on longhorn beetles fauna of Turkey have been done. These studies were mainly divided into two titles as faunistic and taxonomic Works. Chiefly faunistic studies are Fairmaire (28), Semenov (58), Bodemeyer (10, 11), Winkler (72),

İyriboz (34, 35), Acatay (1, 2), Alkan (5), Erdem (25, 26), Schimitschek (55), Defne (20), Çanakçıoğlu (15, 16), Villiers (70, 71), Demelt & Alkan (23), Demelt (21, 22), Nizamlıoğlu & Gökmen (38), Breuning & Villiers (14), Beşçeli (9), Fuchs & Breuning (29), Ekici (24), Gfeller (30), Tuatay *et al.* (68), Gül-Zümreoğlu (31, 32), İren & Ahmed (33), Sekendiz (56, 57), Tosun (62), Erdem & Çanakçıoğlu (27), Braun (12, 13), Özbek (40), Sama (51, 52, 53), Danilevsky & Miroshnikov (18), Öymen (39), Adlbauer (3, 4), Sabbadini & Pesarini (50), Danilevsky (19), Bense (8), Yüksel (73), Althoff & Danilevsky (7), Çanakçıoğlu & Mol (17), Lodos (37), Kanat (36), Ulusoy *et al.* (69), Rejzek & Hoskovec (48), Sama & Rapuzzi (54), Alkan (6), Tozlu & Özbek (63), Tausin (59, 60), Tozlu (64, 65), Rejzek *et al.* (49), Tezcan & Rejzek (61),

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Tozlu *et al.* (66, 67), Özdikmen (41, 42), Özdikmen & Çağlar (43), Özdikmen & Hasbenli (44), Özdikmen & Okutaner (45, 46) and Özdikmen *et al.* (47).

2. MATERIAL AND METHODS

The specimens of the family Cerambycidae that were collected by the different authors in various years (1953-1954, 1957, 1963, 1965-1967, 1972, 1978, 1981-1982, 1986, 1994-1997, 1999-2003) from different localities in Turkey were examined in the present study.

These materials that were deposited in the Entomology Museum of Central Anatolia Forestry Research Directorship, Ankara, Turkey were evaluated faunistically.

In this paper nomenclature of the longhorn beetles suggested by Danilevsky (19) and Althoff & Danilevsky (7) are followed. Within the genera the species are listed alphabetically. Nominative subgenera or subspecies are not mentioned if other subgenera or subspecies do not occur in Turkey according to this study. Each name of a genus, species or subspecies is accompanied by the author's name and description date.

The data in the text is given under "Material Examined" and "Note" headings for each taxon. All records under the title of material examined are arranged in the following way: administrative district (Province), Town, Village, Altitude, Collecting date (day/month/year), Number of specimens and the name of collector respectively. But some data is absent for some specimens due to lack of information on labels in the museum. Also in the Note parts, comments and discussions for every taxon about distribution in Turkey are given as summary.

3. RESULTS AND DISCUSSION

Subfamily PRIONINAE

Ergates faber (Linnaeus, 1767)

Material Examined: Ankara: Kızılcahamam, Çamkoru T. O., 1490 m, 2 specimens, leg. O. Özkazanç.

Note: New for Ankara province and rather widely distributed in Turkey.

Aegosoma scabricorne (Scopoli, 1763)

Material Examined: Balıkesir: Manyas Kuş Cenneti, 13.07.1981, 1 specimen, adult on stem of *Salix*.

Note: New for Balıkesir province and rather widely distributed in Turkey.

Prionus coriarius (Linnaeus, 1758)

Material Examined: Ankara: Kızılcahamam, Çamkoru T. O., 1490 m, 2 specimens, leg. O. Özkazanç; Balıkesir: Erdek, 15.07.1981, 1 specimen; Kocaeli: Kerpe,

17.07.2003, 2 specimens; Kocaeli: İzmit, 07.08.2003, 1 specimen, leg. F. Ş. Özay.

Note: New for Ankara, Balıkesir and Kocaeli provinces and rather widely distributed in Turkey.

Mesoprionus besicanus (Fairmaire, 1855)

Material Examined: Burdur: Bucak, 22.07.1966, 1 specimen.

Note: Mostly distributed in West and South parts of Turkey.

Subfamily LEPTURINAE

Rhagium (Hagrium) bifasciatum Fabricius, 1775

Material Examined: Karabük: Büyükdüz Research Forest, 26.04.1963, 3 specimens; Trabzon: Meryemana, 07.05.1966, 1 specimen, 20.05.1966, 2 specimens; Turkey: 1 specimen, without label.

Note: Mostly distributed in North Turkey.

Rhagium (Megarhagium) fasciculatum Faldermann, 1837

Material Examined: Trabzon: Meryemana, 20.05.1966, 2 specimens.

Note: Only distributed in North-Eastern Turkey.

Rhagium (s.str.) inquisitor (Linnaeus, 1758)

Material Examined: Karabük: Büyükdüz Research Forest, 26.04.1963, 8 specimens.

Note: New for Karabük province and mostly distributed in North Turkey.

Rutpela maculata (Poda, 1761)

Material Examined: Kocaeli: İzmit, 18.07.1996, 1 specimen, leg. F. Ş. Özay.

Note: New for Kocaeli province and widely distributed in Turkey.

Anastrangalia dubia (Scopoli, 1763)

Material Examined: Turkey: 1 specimen, without label.

Note: Widely distributed in Turkey.

Anastrangalia sanguinolenta (Linnaeus, 1761)

Material Examined: Ankara: Kızılcahamam, Çamkoru T. O., 15.07.1963, 1 specimen, leg. O. Özkazanç.

Note: Mostly distributed in North Turkey.

***Paracorymbia cordigera* (Füsslins, 1775)**

Material Examined: Balıkesir: Susurluk, 16.07.1996, 1 specimen, leg. F. Ş. Özay.

Note: Widely distributed in Turkey.

Subfamily SPONDYLIDINAE

***Arhopalus fesus* (Mulsant, 1839)**

Material Examined: Turkey: 2 specimens, without label.

Note: Rather widely distributed in Turkey.

***Arhopalus rusticus* (Linnaeus, 1758)**

Material Examined: Karabük: Büyükdüz Research Forest, 08.09.1965, 6 specimens.

Note: Rather widely distributed in Turkey.

***Arhopalus syriacus* (Reitter, 1895)**

Material Examined: İçel: Mut, Alahandüzü, 04.05.1978, 1 specimen.

Note: New for İçel province. It distributes in South parts of Turkey. For this reason, the Artvin record in Sekendiz (57) is very doubtful. The status of this record must be revised.

***Spondylis buprestoides* (Linnaeus, 1758)**

Material Examined: Ankara: Kızılcahamam, Çamkoru A. O., 19.07.1963, 6 specimens, leg. O. Özkazanç.

Note: Mostly distributed in North and West Turkey.

Subfamily CERAMBYCINAE

***Hesperophanes sericeus* (Fabricius, 1787)**

Material Examined: Turkey: 1 specimen, without label.

Note: Mostly distributed in South-Western Turkey.

***Trichoferus griseus* (Fabricius, 1792)**

Material Examined: İçel: Mut, 10.08.1972, 1 specimen, leg. O. Özkazanç.

Note: Mostly distributed in South and South-Western Turkey.

***Stromatium unicolor* (Olivier, 1795)**

Material Examined: Ankara: flats of Ministry of Forest, 12.08.1982, 2 specimens, leg. O. Özkazanç.

Note: New for Ankara province and widely distributed in Turkey.

***Cerambyx* (s.str.) *cerdo* Linnaeus, 1758**

Material Examined: Denizli: Centre of Laboratuar, 21.06.1963, 1 specimen; Bartın: Gafhar district, May1999, 1 specimen.

Note: New for Denizli and Bartın provinces and widely distributed in Turkey.

***Cerambyx* (s.str.) *dux* (Faldermann, 1837)**

Material Examined: Turkey: 1 specimen, without label.

Note: Widely distributed in Turkey.

***Cerambyx* (*Microcerambyx*) *scopolii* Fusslins, 1775**

Material Examined: Edirne: 09.05.1996, 1 specimen, leg. F. Ş. Özay.

Note: New for Edirne province and widely distributed in Turkey.

***Purpuricenus budensis* (Gotz, 1783)**

Material Examined: Samsun: Terme, Bük, 26.06.1967, 4 specimens; Kocaeli: İzmit, 22.07.1996, 1 specimen, leg. F. Ş. Özay.

Note: New for Samsun and Kocaeli provinces and widely distributed in Turkey.

***Aromia moschata* (Linnaeus, 1758)**

According to Sama (53), there are three subspecies of *Aromia moschata* in the world. The nominative *Aromia moschata moschata* occurs from the great part of Europe to Baikal Lake, *Aromia moschata ambrosiaca* (Steven, 1809) occurs from Mediterranean Region and North Africa to Central Asia including Turkey, Middle East and Caucasus and *Aromia moschata orientalis* Plavilstshikov, 1932 occurs from Baikal Lake to Japan. *Aromia moschata* is represented in Turkey as two subspecies. These are nominate *Aromia moschata moschata* and *Aromia moschata ambrosiaca* (Steven, 1809) (= *thoracica* Fischer, 1824). It is clear that the real status of systematic and distributional patterns of these subspecies need to be clarified. For this reason, especially old records from Turkey of these taxa must be revised in subspecific level.

***Aromia moschata moschata* (Linnaeus, 1758)**

Material Examined: Kocaeli: İzmit, 29.07.1997, 3 specimens, leg. F. Ş. Özay.

Note: New for Kocaeli province and rather widely distributed in Turkey.

***Aromia moschata ambrosiaca* (Steven, 1809)**

Material Examined: Artvin: 23.07.1986, 2 specimens, leg. O. Özkazanç.

Note: Rather widely distributed in Turkey.

***Hylotrupes bajulus* (Linnaeus, 1758)**

Material Examined: Karabük: Büyükdüz Research Forest, 18.08.1964, 4 specimens; Bartın: 04.07.2002, 1 specimen; Turkey: 1 specimen, without label.

Note: New for Bartın province and widely distributed in Turkey. It is an important wood pest.

***Ropalopus clavipes* (Fabricius, 1775)**

Material Examined: Edirne: 09.05.1996, 1 specimen; Balıkesir: Manyas, 03.06.1996, 1 specimen, leg. F. Ş. Özay.

Note: New for Edirne and Balıkesir provinces and rather widely distributed in Turkey.

***Phymatodes testaceus* (Linnaeus, 1758)**

Material Examined: Turkey: 1 specimen, without label.

Note: Rather widely distributed in Turkey.

***Chlorophorus varius* (Muller, 1766)**

Material Examined: Turkey: 1 specimen, without label.

Note: Widely distributed in Turkey.

Subfamily LAMIINAE***Batocera rufomaculata* (Degeer, 1785)**

Material Examined: Hatay: İskenderun, Sarımsazı, 12.08.2000, 1 specimen.

Note: Only distributed in South parts of Turkey.

***Monochamus galloprovincialis* (Olivier, 1795)**

Material Examined: Bursa: Mustafakemalpaşa, Sarımsazı, 19.08.2002, 2 specimens; Turkey: 17.07.1965, 1 specimen; Turkey: 1 specimen, without label.

Note: New for Bursa province and widely distributed in Turkey. According to Sama (53), there are three subspecies of *Monochamus galloprovincialis* in the world. The nominative *M. galloprovincialis galloprovincialis* occurs in South-Western Europe and North Africa, *M. galloprovincialis pistor* (Germar, 1818) occurs in North, Central and East Europe and *M. galloprovincialis tauricola* Pic, 1912 occurs only in South Turkey. Under the circumstances, there are two subspecies in Turkey, *M. galloprovincialis pistor* (Germar, 1818) and *M. galloprovincialis tauricola* Pic, 1912. It is clear that the real status of systematic and distributional patterns of these subspecies need to be clarified. For this reason, especially old records from Turkey of these taxa must be revised. However, it is expected that the most of old records belong to the subspecies *M. galloprovincialis pistor* (Germar, 1818) because of *M. galloprovincialis tauricola* Pic, 1912 occurs only in South Turkey. But, getting to a final decision is impossible unless all old records are revised.

***Morinus asper* (Sulzer, 1776)**

Material Examined: Trabzon: Meryemana, 31.05.1966, 1 specimen, 05.07.1964, 2 specimens; Ankara: Kızılcahamam, Çamkoru T. O., Resting house, 1400 m, 1 specimen, leg. O. Özkazanç.

Note: New for Ankara province and only distributed in North Turkey. The real status of distribution in Turkey of this taxon needs to be clarified especially by revising all old records. These records must be examined whether they belong to *Morinus orientalis* (Reitter, 1804), which has a close external morphological structure, occurs in European Turkey and North-Western Turkey, or *Morinus verecundus* (Faldermann, 1836), occurs from North-Eastern Turkey to Turkmenistan including Caucasus.

***Morinus funereus* (Mulsant, 1863)**

Material Examined: Ankara: Kızılcahamam, Çamkoru T. O., Dinlenme Evi, 1400 m, 1 specimen; Ankara: 10.06.1967, 1 specimen; Burdur: Bucak, 28.06.1967, 1 specimen; Bartın: Campus of Forestry Faculty, 12.03.2000, 1 specimen, leg. O. Özkazanç.

Note: New for Burdur and Bartın provinces and especially distributed in West and North-West Turkey.

***Morinus ganglbaueri* (Reitter, 1894)**

Material Examined: Turkey: 1 specimen, *Abies*; Sakarya: Karasu, 22.06.2003, 1 specimen, *Pinus maritima*, leg. F. Ş. Özay.

Note: New for Sakarya province and especially distributed in Western parts of Turkey. Kahramanmaraş record in Kanat (36) must be revised due to known distributional patterns of this taxon.

***Pogonocherus anatolicus* Daniel, 1898**

Material Examined: Turkey: 3 specimens, without label.

Note: Only distributed in South part of Turkey.

***Pogonocherus perroudi* Mulsant, 1839**

Material Examined: Karabük: Büyükdüz Research Forest, 1953, 1954, 1957, 4 specimens, leg. Ö. Beşçeli.

Note: New for Karabük province and widely distributed in Turkey.

***Aegomorphus clavipes* (Schränk, 1781)**

Material Examined: Edirne: Keşan, 02.06.1996, 2 specimens, leg. F. Ş. Özay.

Note: New for Edirne province and widely distributed in Turkey.

***Acanthocinus aedilis* (Linnaeus, 1758)**

Material Examined: Turkey: 24.08.1966, 1 specimen; Turkey: 2 specimens, without label.

Note: Mostly distributed in Northern and Western parts of Turkey.

***Acanthocinus griseus* (Fabricius, 1792)**

Material Examined: Bursa: Karacabey, 19.08.2002, 1 specimen; Edirne: Enez, 21.08.2003, 1 specimen and 16.10.2003, 1 specimen; Bursa: Mustafakemalpaşa, Sarıç, 24.07.2001, 1 specimen; Kocaeli: İzmit, Gebze, Ovacık, 29.09.2003, 2 specimens; Kocaeli: İzmit, Karatepe, 14.10.2003, 1 ergin; Kocaeli: Kerpe, 1994 yaz ayları, 1 specimen.

Note: New for Edirne and Kocaeli provinces and widely distributed in Turkey.

***Saperda carcharias* (Linnaeus, 1758)**

Material Examined: Ankara: Kızılcahamam, Çamkoru T. O., 1400 m, 3 specimens, leg. O. Özkazanç.

Note: New for Ankara province and mostly distributed in Northern and Western parts of Turkey.

***Oberea oculata* (Linnaeus, 1758)**

Material Examined: Kocaeli: İzmit, 04.05.1995, 2 specimens, leg. F. Ş. Özay.

Note: New for Kocaeli province and widely distributed in Turkey.

ACKNOWLEDGEMENT

We thank to Dr. Gianfranco Sama (Italy) for identification of *Pogonocherus anatolicus* Daniel, 1898.

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