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Contribution to the knowledge of the Jewel Beetles of Albania (Coleoptera: Buprestidae)

With 2 figures and 1 table

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Summary

A total number of 48 species and subspecies belonging to 18 genera and 8 subfamilies of Buprestidae are reported from Albania. 15 taxa marked by asterisk in the text are new for the country's fauna. Including the new records, the number of jewel beetles known from the Albanian territory has increased to 111. The new localities for the reported buprestids are listed. A zoogeographical analysis based on all known Albanian jewel beetles is presented. The dominance of Mediterranean elements indicates a high impact of the Mediterranean fauna on the Albanian buprestid communities.

Key words

Coleoptera, Buprestidae, Albania, Mediterranean, Faunistics, Zoogeography

Zusammenfassung

Es wird über insgesamt 48 Arten und Unterarten von Albanien, die zu 18 Gattungen und 8 Unterfamilien der Familie Buprestidae gehören, berichtet. Die 15 für die Fauna des Landes neuen Taxa sind mit einem Sternchen markiert. Mit den gesammelten neuen Arten erhöht sich die Zahl der Buprestiden, die aus Albanien bekannt sind, auf 111. Angefügt ist eine zoogeographische Analyse aller bekannten albanischen Buprestiden. Das Überwiegen von mediterranen Arten zeigt den starken Einfluß der Mittelmeerfauna auf die Zusammensetzung der Buprestidenfauna Albanien.

Acknowledgments

I wish to thank Dr S. BÍLY (Prague) and Dr M. KALASHIAN (Erevan) for the determination and confirmation of some species. I am obliged to my Bulgarian colleagues S. ABADJIEV, Dr P. BERON, G. BLAGOEV, B. GUÉORGUEV, Dr J. KOLAROV, M. LANGOUROV, Dr L. PENEV and B. PETROV, for accepting the buprestid species for investigation. Special thanks to Dr K. MISJA and Dr O. MERKL for giving me the possibility to work with the collections of the Museums in Tirana and Budapest.

Introduction

After the summarizing paper of MÜHLE (1980) and its supplement (MÜHLE, 1984) so far there have been no other publications on the Albanian buprestids fauna. VOLKOVITSH (1989) in his work for buprestids from Eastern Mediterranean reported another one species (*Acmaeoderella jonica*).

The main goal of this paper is to present new faunistical and zoogeographical information about the Buprestidae family from this very interesting area of the Balkan Peninsula.

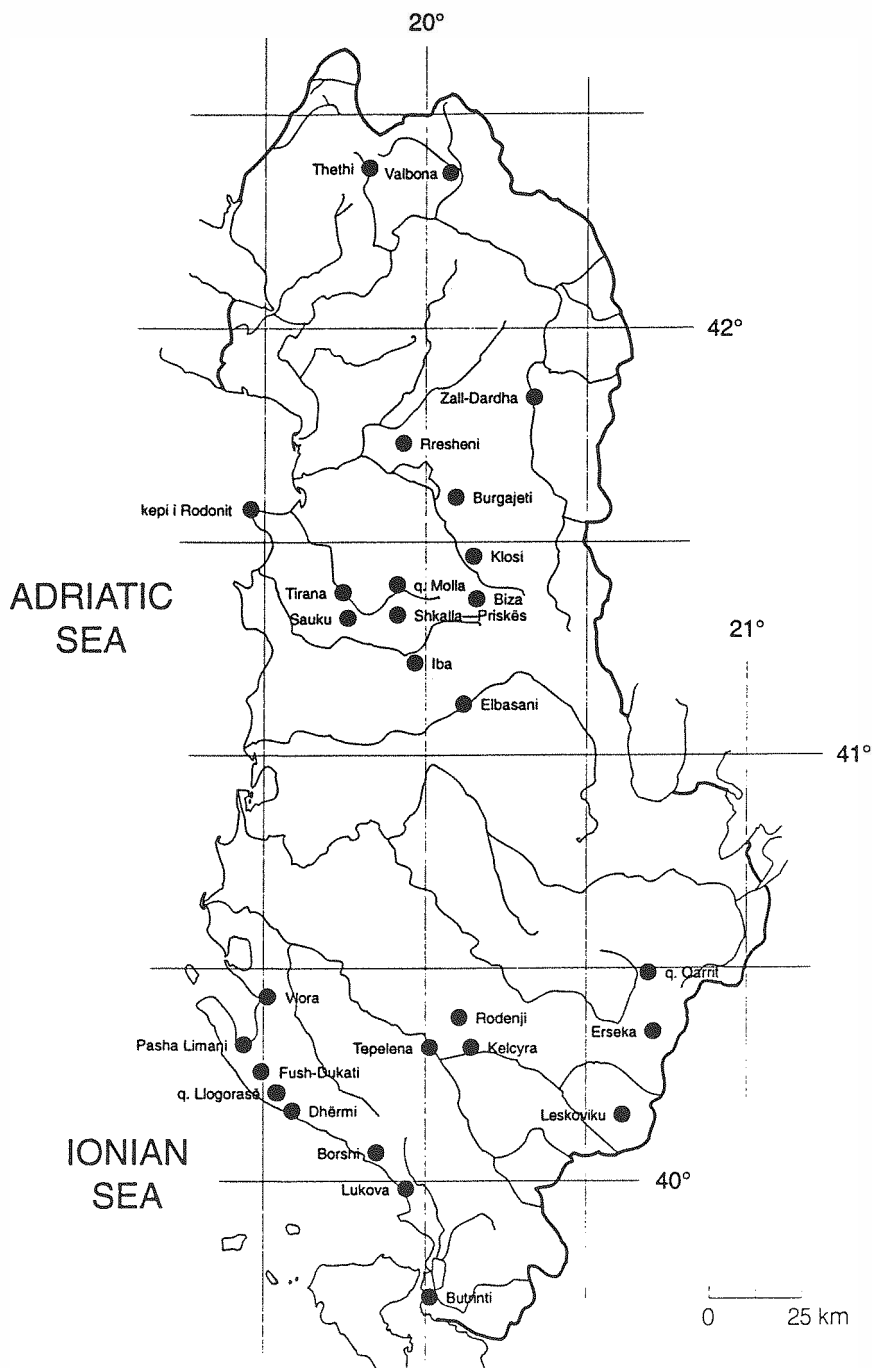


Fig. 1. Map of Albania showing the localities.

Material and Methods

The greater part of studied material was collected by the author in 1994 and 1995. Traditional faunistical methods for buprestids catching were used: sweeping grass vegetation, beating of the trees and bushes branches, decortication of the trees and bushes etc. The collected species are kept in the Institute of Zoology Scientific Funds (IZ). Material and data from the following collections have been used: Museums of Natural History in Tirana (Muzeu Shkencave Natyrore - MSN) and in Budapest (Termesztudományi Múzeum, Budapest - TMB). The localities included in this paper are presented in Fig. 1.

The zoogeographical classification of the jewel beetles is based mainly on the data of their recent spreading. When the species are polytypic and subspecies known for Albania are morphologically distinct or geographically separated, then the information of the distribution of concrete subspecies is used.

The list of the established species and subspecies comprises the following data: the valid taxa name; the information for provinces, concrete locality names (Fig. 1), date of catching, number of found specimens, the name of the collector or determinator (when the material was not collected or determined by the author), the name of collections where the taxa are kept and the plants where some species were found.

The new taxa for the Albanian fauna are marked by asterisk in the list.

Faunistical Results

The established buprestids taxa are as follow:

JULODINAE

**Julodis ehrenbergi* LAPORTE, 1835

Albania, 2 ex. (coll. FUSS in TMB).

POLYCESTINAE

Ptosima flavoguttata (ILLIGER, 1803)

Prov. Tirana: Shkalla-Priskës, 29.06.1958, 1 ex, leg. X. MURRAJ (coll. MSN).

ACMAEODERINAE

**Acmaeodera brevipes brevipes* KIESENWETTER, 1858

Prov. Saranda: Lukova, 5.06.1995, 1 ex (coll. IZ).

Acmaeodera bipunctata bipunctata (OLIVIER, 1790)

Prov. Korca: q. Qarrit, 1.06.1994, 1 ex; Prov. Kolonja: Leskoviku, 1.06.1994, 1 ex, 2.06.1995, 7 ex (coll. IZ).

Acmaeodera crinita crinita SPINOLA, 1838

Prov. Saranda: Lukova, 5.06.1995, 3 ex; Prov. Vlora: Vlora, 7.06.1995, 1 ex (coll. IZ).

**Acmaeodera ottomana* (FRIVALDSZKY, 1837)

Prov. Saranda: Butrinti, 4.06.1995, 2 ex, Lukova, 5.06.1995, 2 ex (coll. IZ).

**Acmaeoderella adspersula adspersula* (ILLIGER, 1803)

Prov. Saranda: Butrinti, 4.06.1995, 1 ex, Lukova, 5.06.1995, 1 ex (coll. IZ).

Acmaeoderella flavofasciata flavofasciata (PILLER & MITTERPACHER, 1783)

Prov. Permeti: Rodenji, 22.07.1962, 1 ex, leg. X. MURRAJ (coll. MSN).

**Acmaeoderella mimonti* (BOIELDIEU, 1865)

Prov. Saranda: Lukova, 5.06.1995, 1 ex (coll. IZ).

CHALCOPHORINAE

Chalcophora mariana (LINNAEUS, 1758)

Prov. Mati: Burgajeti, 9.08.1959, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Kolonja: Leskoviku, 1.06.1994, 14 ex, coll. on the trunks of *Pinus* sp. (coll. IZ).

Chalcophorella stigmatica (SCHÖNHERR, 1817)

Prov. Vlora: Fush-Dukati, 7.05.1958, 1 ex, 8.06.1958, 1 ex, 6.07.1959, 1 ex leg. X. MURRAJ (coll. MSN); Prov. Saranda: Butrinti, 24.06.1995, 1 ex, leg. S. ABADJIEV (coll. IZ).

Chalcophorella fabricii (ROSSI, 1794)

Prov. Vlora: Pasha Limani, 05.1908, 1 ex (coll. TMB).

Capnodis tenebricosa (OLIVIER, 1790)

Prov. Tirana: Iba, 4.07.1963, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Vlora: Dhërmi, 26.06.1995, 1 ex, leg. S. ABADJIEV; Prov. Saranda: Lukova, 3-4.06.1994, 2 ex, 3.06.1995, 1 ex (coll. IZ).

Capnodis tenebrionis (LINNAEUS, 1761)

Prov. Tirana: Sauku, 4.05.1959, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Saranda: Lukova, 5.06.1995, 1 ex (coll. IZ).

Capnodis cariosa (PALLAS, 1776)

Prov. Permeti: Kelcyra, 16-20.08.1962, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Kolonja: Leskoviku, 1.06.1994, 1 ex; Prov. Saranda: Lukova, 3.06.1994, 3 ex on *Phyllirea media*; Prov. Vlora: Vlora, 5.06.1994, 1 ex, Dhërmi, 26.06.1996, 1 ex (coll. IZ).

Capnodis porosa (KLUG, 1829)

Prov. Kolonja: Leskoviku, 1.06.1994, 1 ex (coll. IZ).

Aurigena lugubris lugubris (FABRICIUS, 1777)

Prov. Didra: Zall-Dardha, 23.05.1958, 1 ex; Prov. Permeti: Kelcyra, 16-20.08.1962, 1 ex; Prov. Tirana: Tirana, 4.10.1966, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Saranda: Lukova, 3-4.06.1994, G. BLAGOEV; Prov. Vlora: Dhërmi, 26.06.1995, 2 ex, leg. S. ABADJIEV (coll. IZ).

SPHENOPTERINAE

**Sphenoptera lapidaria* BRULLÉ, 1832

Prov. Tepelena: Tepelena, 3.06.1995, 1 ex on *Platanus orientalis*, det. M. KALASHIAN (coll. IZ).

**Sphenoptera tappesi* MARSEUL, 1865

Prov. Saranda: Lukova, 5.06.1995, 1 ex on *Olea* sp. (coll. IZ).

BUPRESTINAE

Dicerca aenea (LINNAEUS, 1761)

Prov. Tepelena: Tepelena, 2.06.1994, 1 ex (coll. IZ).

Dicerca berolinensis (HERBST, 1779)

Prov. Tirana: Biza, 9-16.07.1961, 4 ex leg. X. MURRAJ (coll. MSN); Prov. Mirdita: Rresheni, 11.06.1993, 1 ex, leg. P. BERON and B. PETROV (coll. IZ).

Scintillatrix mirifica MULSANT, 1855

Prov. Elbasani: Elbasani, 20.06.1994, 1 ex, leg. J. KOLAROV and M. LANGOUROV (coll. IZ).

**Eurythyrea austriaca* (LINNAEUS, 1767)

Prov. Tropoja: Valbona, 28.07.1959, 1 ex, leg. X. MURRAJ (coll. MSN).

Eurythyrea aurata (PALLAS, 1776)

Prov. Tirana: Sauku, 10-20.06.1961, 1 ex, leg. X. MURRAJ (coll. MSN).

Buprestis haemorrhoidalis haemorrhoidalis HERBST, 1780

Prov. Kolonja: Leskoviku, 9.07.1959, 1 ex, leg. X. MURRAJ (coll. MSN).

Buprestis novemmaculata novemmaculata LINNAEUS, 1767

Prov. Mati: Burgajeti, 9.08.1959, 1 ex, leg. X. MURRAJ (coll. MSN).

**Buprestis novemmaculata gravida* ABEILLE DE PERRIN, 1904

Prov. Didra: Zall-Dardha, 25.05.1958, 1 ex, leg. X. MURRAJ (coll. MSN).

Buprestis splendens FABRICIUS, 1774

Prov. Shkodra: Thethi, 21.07.1959, 1 ex, leg. X. MURRAJ (coll. MSN).

Anthaxia hungarica hungarica (SCOPOLI, 1772)

Prov. Kolonja: Leskoviku, 2.06.1995, 1 ex; Prov. Saranda: Butrinti, 4.06.1995, 2 ex (coll. IZ).

**Anthaxia diadema diadema* (FISCHER, 1823)

Prov. Permeti: Rodenji, 2-22.07.1962, 1 ex, leg. X. MURRAJ (coll. MSN).

Anthaxia millefolii millefolii (FABRICIUS, 1801)

Prov. Saranda: Butrinti, 3.06.1994, 4 ex, 4.06.1995, 14 ex, Lukova 4.06.1994, 2 ex, 5.06.1995, 2 ex; Prov. Mati: Klosi, 8.06.1995 1 ex (coll. IZ).

Anthaxia umbellatarum umbellatarum (FABRICIUS, 1787)

Prov. Saranda: Lukova, 3-4.06.1994, 7 ex, 5.06.1995, 1 ex (coll. IZ).

**Anthaxia scutellaris scutellaris* GENÉ, 1839

Prov. Saranda: Lukova, 5.06.1995, 1 ex, det. S. BÍLY (coll. IZ).

Anthaxia cichorii cichorii (OLIVIER, 1780)

Prov. Tirana: q. Molla, 17.06.1960, 1 ex; Prov. Tepelena: Tepelena, 30.05.1961, 1 ex; Prov. Tirana: Sauku, 16.05.1962, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Durres: kepi i Rodonit, 21.06.1994, 1 ex, leg. B. GUÉORGUIEV; Prov. Saranda: Lukova, 4-5.06.1994, 3 ex, Butrinti, 4.06.1995, 5 ex (coll. IZ).

Anthaxia istriana ROSENHAUER, 1847

Prov. Kolonja: Erseka, 12.05.1995, 1 ex, L. PENEV, Leskoviku, 2.06.1995, 2 ex; Prov. Korca: q. Qarrit, 1.06.1995, 2 ex (coll. IZ).

**Anthaxia godeti* LAPORTE & GORY, 1839

Prov. Korca: q. Qarrit, 1.06.1994, 5 ex; Prov. Kolonja: Leskoviku, 2.06.1995, 1 ex (coll. IZ).

**Anthaxia brevis brevis* LAPORTE & GORY, 1839

Prov. Saranda: Butrinti, 3.06.1994, 2 ex (coll. IZ).

CHRYSOBOTHRIINAE

Chrysobothris affinis (FABRICIUS, 1794)

Prov. Tirana: Biza, 9-16.07.1961, 1 ex, leg. X. MURRAJ (coll. MSN).

AGRILINAE

Coroebus rubi (LINNAEUS, 1767)

Prov. Tirana: Tirana, 1.06.1958, 1 ex, 10.05.1961, 1 ex, Iba 4.07.1963, 1 ex; Prov. Permeti: Rodenji, 26-28.07.1962, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Saranda: Butrinti, 4.06.1995, 1 ex (coll. IZ).

Coroebus elatus (FABRICIUS, 1787)

Prov. Permeti: Rodenji, 2-22.07.1962, 1 ex, leg. X. MURRAJ (coll. MSN); Prov. Korca: q. Qarrit, 1.06.1994, 1 ex; Prov. Vlora: q. Llogorasë, 5.06.1994, 1 ex; Prov. Kolonja: Leskoviku, 2.06.1995, 1 ex (coll. IZ).

Nalanda fulgidicollis (LUCAS, 1849)

Prov. Korca: q. Qarrit, 1.06.1994, 6 ex on *Quercus* sp.; Prov. Saranda: Lukova, 3-4.06.1994, 1 ex on *Quercus coccifera* (coll. IZ).

**Agrilus convexicollis convexicollis* REDTENBACHER, 1849

Prov. Saranda: Butrinti, 3.06.1994, 1 ex, 4.06.1995, 1 ex on *Olea* sp. (coll. IZ).

**Agrilus dualis dualis* ALEXEEV & BÍLY, 1980

Prov. Saranda: Butrinti, 4.06.1995, 3 ex on *Quercus coccifera* (coll. IZ).

Agrilus laticornis (ILLIGER, 1803)

Prov. Korca: q. Qarrit, 1.06.1994, 1 ex on *Quercus* sp. (coll. IZ).

Agrilus obscuricollis KIESENWETTER, 1857

Prov. Korca: q. Qarrit, 1.06.1994, 1 ex on *Quercus* sp. (coll. IZ).

Agrilus angustulus (ILLIGER, 1803)

Prov. Korca: q. Qarrit, 1.06.1995, 1 ex on *Quercus* sp.; Prov. Saranda: Butrinti, 4.06.1995, 4 ex on *Quercus coccifera* (coll. IZ).

Agrilus auricollis KIESENWETTER, 1857

Prov. Saranda: Borshi, 13-28.05.1961, 1 ex, leg. X. MURRAJ (coll. MSN).

Agrilus roscidus KIESENWETTER, 1857

Prov. Saranda: Lukova, 3-4.06.1994, 1 ex, 5.06.1995, 6 ex on *Olea* sp.; Prov. Kolonja: Leskoviku, 2.06.1995, 1 ex on *Arbutus* sp. (coll. IZ).

As it is evident from the list of taxa a total number of 48 species and subspecies which belong to 18 genera and 8 subfamilies have been established. The 15 taxa are new for the Albanian Buprestidae fauna. The new localities are established for the rest of the buprestids. With the collected new taxa the number of jewel beetles which are known from the Albanian territory is increased to 111.

Zoogeographical Results

From the zoogeographical point of view all the established 111 buprestid taxa in Albania are arranged in 15 zoogeographical categories (Table 1).

Table 1. Zoogeographical characteristic of the Albanian buprestids.

TAXA	ZOOGEOGRAPHICAL CATEGORIES
<i>Julodis ehrenbergi</i> LAPORTE	Eastmediterranean
<i>Ptosima flavoguttata</i> (ILLIGER)	Southwestpalaearctic
<i>Acmaeodera brevipes brevipes</i> KIESENWETTER	Eastmediterranean
<i>Acmaeodera pilosellae pilosellae</i> (BONELLI)	Northmediterranean
<i>Acmaeodera bipunctata bipunctata</i> (OLIVIER)	Transmediterranean
<i>Acmaeodera crinita crinita</i> SPINOLA	Eastmediterranean
<i>Acmaeodera ottonana</i> (FRIVALDSZKY)	Eastmediterranean
<i>Acmaeoderella jonica</i> (OBENBERGER)	Eastmediterranean
<i>Acmaeoderella adspersula adspersula</i> (ILLIGER)	Transmediterranean

<i>Acmaeoderella flavofasciata flavofasciata</i> (PILLER et MITTERPACHER)	Mediterranoeuropean
<i>Acmaeoderella mimonti</i> (BOIELDIEU)	Southwestpalaearctic
<i>Chalcophora intermedia</i> REY	Northmediterranean
<i>Chalcophora mariana</i> (LINNAEUS)	Eurosiberian
<i>Chalcophora detrita</i> (KLUG)	Eastmediterranean
<i>Chalcophorella stigmatica</i> (SCHÖNHERR)	Eastmediterranean
<i>Chalcophorella fabricii</i> (ROSSI)	Eastmediterranean
<i>Capnodis tenebricosa</i> (OLIVIER)	Southwestpalaearctic
<i>Capnodis tenebrionis</i> (LINNAEUS)	Southwestpalaearctic
<i>Capnodis cariosa</i> (PALLAS)	Pontomediterranean
<i>Capnodis porosa</i> (KLUG)	Eastmediterranean
<i>Cyphosoma euphraticum</i> (LAPORTE & GORY)	Eastmediterranean
<i>Aurigena lugubris lugubris</i> (FABRICIUS)	Pontomediterranean
<i>Sphenoptera albanica</i> OBENBERGER	Balkan endemic
<i>Sphenoptera barbarica</i> (GMELIN)	Transmediterranean
<i>Sphenoptera lapidaria</i> BRULLÉ	Eastmediterranean
<i>Sphenoptera carceli</i> (LAPORTE & GORY)	Eastmediterranean
<i>Sphenoptera aulacophora</i> JAKOVLEV	Eastmediterranean
<i>Sphenoptera rauca</i> (FABRICIUS)	Southwestpalaearctic
<i>Sphenoptera trebinjensis</i> OBENBERGER	Balkan endemic
<i>Sphenoptera laportei</i> SAUNDERS	Mediterranoeuropean
<i>Sphenoptera tappesi</i> MARSEUL	Eastmediterranean
<i>Dicerca moesta</i> (FABRICIUS)	Eurosiberian
<i>Dicerca aenea</i> (LINNAEUS)	Transpalaearctic
<i>Dicerca alni</i> (FISCHER)	Westpalaearctic
<i>Dicerca berlinensis</i> (HERBST)	European
<i>Scintillatrix mirifica</i> MULSANT	European
<i>Scintillatrix rutilans</i> (FABRICIUS)	European
<i>Eurythyrea quercus</i> (HERBST)	European
<i>Eurythyrea austriaca</i> (LINNAEUS)	European
<i>Eurythyrea aurata</i> (PALLAS)	Pontomediterranean
<i>Buprestis cupressi</i> GERMAR	Eastmediterranean
<i>Buprestis rustica</i> LINNAEUS	Eurosiberian

<i>Buprestis haemorroidalis haemorroidalis</i> HERBST	Westpalaearctic
<i>Buprestis dalmatina</i> MANNERHEIM	Eastmediterranean
<i>Buprestis novemmaculata novemmaculata</i> LINNAEUS	Transpalaearctic
<i>Buprestis novemmaculata gravida</i> ABEILLE DE PERRIN	Eastmediterranean
<i>Buprestis splendens</i> FABRICIUS	European
<i>Melanophila acuminata</i> (DE GEER)	Holarctic
<i>Melanophila cuspidata</i> (KLUG)	Transmediterranean
<i>Phaenops cyanea</i> (FABRICIUS)	Transpalaearctic
<i>Anthaxia hungarica hungarica</i> (SCOPOLI)	Mediterraneanoeuropean
<i>Anthaxia diadema diadema</i> (FISCHER)	Pontomediterranean
<i>Anthaxia millefolii millefolii</i> (FABRICIUS)	Pontomediterranean
<i>Anthaxia umbellatarum umbellatarum</i> (FABRICIUS)	Mediterraneanoeuropean
<i>Anthaxia scutellaris scutellaris</i> GENÉ	Westmediterranean
<i>Anthaxia cichorii cichorii</i> (OLIVIER)	Mediterraneanoeuropean
<i>Anthaxia hypomelaena</i> (ILLIGER)	Southwestpalaearctic
<i>Anthaxia praeclara</i> MANNERHEIM	Eastmediterranean
<i>Anthaxia olympica</i> KIESENWETTER	Pontomediterranean
<i>Anthaxia similis</i> SAUNDERS	European
<i>Anthaxia istriana</i> ROSENHAUER	Mediterraneanoeuropean
<i>Anthaxia sepulchralis</i> (FABRICIUS)	Westmediterranean
<i>Anthaxia sturanyi</i> OBENBERGER	Balkan endemic
<i>Anthaxia helvetica</i> STIERLIN	European
<i>Anthaxia godeti</i> LAPORTE et GORY	Southwestpalaearctic
<i>Anthaxia quadripunctata</i> (LINNAEUS)	Eurosiberian
<i>Anthaxia funerula</i> (ILLIGER)	Mediterraneanoeuropean
<i>Anthaxia nitidula</i> (LINNAEUS)	Westpalaearctic
<i>Anthaxia discicollis</i> LAPORTE & GORY	Eastmediterranean
<i>Anthaxia brevis brevis</i> LAPORTE & GORY	Pontomediterranean
<i>Anthaxia fulgurans</i> (SCHRANK)	European
<i>Anthaxia podolica podolica</i> MANNERHEIM	European
<i>Anthaxia lucens</i> KÜSTER	Eastmediterranean
<i>Anthaxia deaurata</i> (GMELIN)	Mediterraneanoeuropean

<i>Chrysobothris affinis</i> (FABRICIUS)	Westpalaearctic
<i>Coroebus rubi</i> (LINNAEUS)	Southwestpalaearctic
<i>Coroebus elatus</i> (FABRICIUS)	Westpalaearctic
<i>Meliboeus amethystinus</i> (OLIVIER)	Westmediterranean
<i>Meliboeus graminis</i> (PANZER)	Mediterranoeuropean
<i>Nalanda fulgidicollis</i> (LUCAS)	Mediterranoeuropean
<i>Agrilus ater ater</i> (LINNAEUS)	Westeurosiberian
<i>Agrilus biguttatus</i> (FABRICIUS)	Westpalaearctic
<i>Agrilus convexicollis convexicollis</i> REDTENBACHER	European
<i>Agrilus derasofasciatus</i> LACORDAIRE	Mediterranoeuropean
<i>Agrilus hastulifer</i> RATZEBURG	Southwestpalaearctic
<i>Agrilus graminis</i> LAPORTE et GORY	Southwestpalaearctic
<i>Agrilus dualis dualis</i> ALEXEEV et BÍLY	Pontomediterranean
<i>Agrilus laticornis</i> (ILLIGER)	Westpalaearctic
<i>Agrilus obscuricollis</i> KIESENWETTER	European
<i>Agrilus sulcicollis</i> LACORDAIRE	European
<i>Agrilus angustulus</i> (ILLIGER)	Westpalaearctic
<i>Agrilus sinuatus</i> (OLIVIER)	European
<i>Agrilus pratensis pratensis</i> RATZEBURG	Westeurosiberian
<i>Agrilus auricollis</i> KIESENWETTER	European
<i>Agrilus viridis</i> (LINNAEUS)	Transpalaearctic
<i>Agrilus cuprescens</i> MÉNÉTRIÉ	Transpalaearctic
<i>Agrilus lineola</i> REDTENBACHER	European
<i>Agrilus croaticus</i> ABEILLE DE PERRIN	Centraleuropean
<i>Agrilus marozzinii</i> GOBBI	Transmediterranean
<i>Agrilus viridicaerulans rubi</i> SCHAEFER	Mediterranoeuropean
<i>Agrilus roscidus</i> KIESENWETTER	Southwestpalaearctic
<i>Agrilus hyperici</i> (CREUTZER)	European
<i>Agrilus albaniae</i> OBENBERGER	Balkan endemic
<i>Paracylindromorphus subuliformis</i> <i>subuliformis</i> (MANNERHEIM)	Westpalaearctic
<i>Aphanisticus pusillus</i> (OLIVIER)	Mediterranoeuropean
<i>Aphanisticus emarginatus</i> (OLIVIER)	Mediterranoeuropean
<i>Aphanisticus elongatus</i> (VILLA)	Mediterranoeuropean

<i>Trachys minutus</i> (LINNAEUS)	Eurosiberian
<i>Trachys scrobiculatus</i> KIESENWETTER	Mediterraneo-european
<i>Trachys troglodytes</i> GYLLENHAL	European
<i>Trachys coruscus</i> PONZA	Southwest-palaearctic

Following SAKALIAN's (1994) conception, the established 15 zoogeographical categories are combined in 7 zoogeographical complexes as follows: Holarctic complex with 1 species (*Melanophila acuminata*), Palaearctic complex (14 taxa) where Transpalaearctic (5) and Westpalaearctic (9) buprestids are included, Eurosiberian complex (7) represented by Eurosiberian (5) and Westeurosiberian (2) taxa, Southpalaearctic - including, in our case, 12 Southwestpalaearctic species, European complex (19) represented by 18 Transeuropean and 1 Central-european taxa, Mediterranean complex (54) where belong taxa from 6 categories: Mediterraneo-european (16), Transmediterranean (5), Northmediterranean (2), Westmediterranean (3), Pontomediterranean (8) and Eastmediterranean (20). The Balkan endemics are represented by 4 species. Up till now *Sphenoptera albanica* and *Agrilus albaniae* have been known only from the Albanian territory.

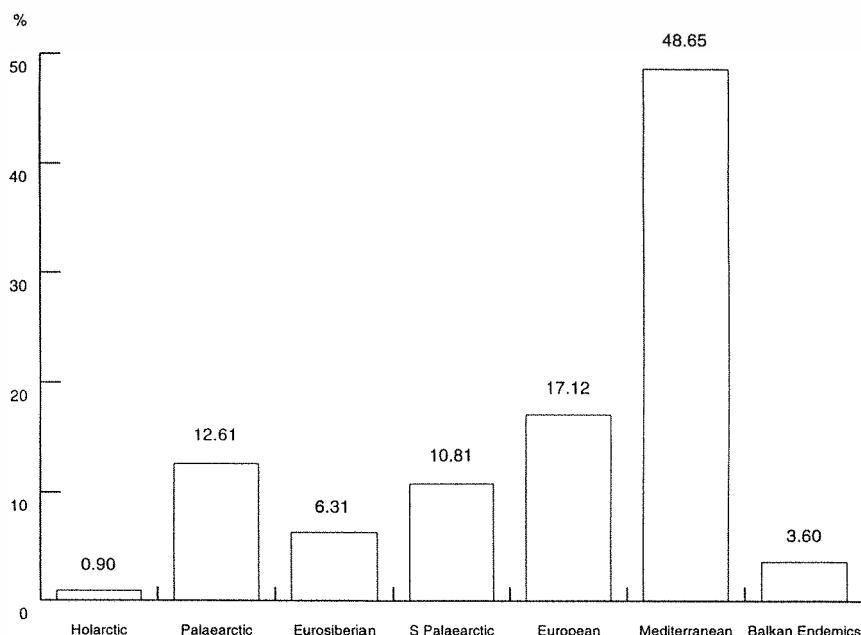


Fig. 2. Zoogeographical complexes in the study area.

The results of the zoogeographical analysis based on the presentation of these complexes in the studied area are shown in the Fig. 2.

The Mediterranean (in the broad sense) taxa are dominant in Albania as it is evident from the figure. More than 50 % of the buprestids in the Mediterranean complex are Pontomediterranean and Eastmediterranean species and subspecies.

Discussion

In our opinion the jewel beetle fauna of Albania is not studied enough. Nevertheless, the investigations by now, show that the great diversity of different natural habitat types in this country allows the distribution of many buprestid species there.

The great domination of Mediterranean taxa demonstrates the high level of the Mediterranean (especially Easmediterranean) fauna impact of buprestid community formation in the Albanian territory.

The location of relict *Buprestis splendens* and 4 Balkan endemics in Albania represent refugial peculiarity of some habitats in the country.

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Besprechungen

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Dieser Naturführer informiert über alle in Mitteleuropa häufig brütenden Greifvogel- und Eulenarten. Die gelungenen Farbfotos geben die faszinierenden Jäger naturgetreu wieder. Einer überblicksartigen Einführung folgen informative Vogelporträts, in denen die Merkmale exakt erklärt, Angaben zum Vorkommen der Arten und damit auch zum Zuchtverhalten und zum Winterquartier gemacht, die Nahrung und die Fortpflanzung beschrieben und Hinweise zur Gefährdung und zum Schutz der Tiere gegeben werden. 60 Graphiken zum Text zeigen Flugbilder oder geben Informationen zu Gefiedermerkmalen und zum Verhalten. In der Einführung geht es neben dem Überblick über die einzelnen Gruppen auch um die Gefährdung der Greifvögel und Eulen sowie um ihre Rolle im Leben des Menschen in verschiedenen Kulturkreisen.

Wie alle Bände des BLV Naturführers vermittelt auch dieser einen ersten Eindruck von der Vielfalt, vom Leben und vom Aussehen der behandelten Vogelgruppen. Wer Interesse an diesen Tieren gefunden hat, wird auf Adressen von Vereinen und Arbeitsgemeinschaften sowie auf weiterführende und vertiefende Literatur hingewiesen.

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