



original scientific paper / izvorni znanstveni rad

CATALOGUE AND ATLAS OF CAVE-DWELLING TERRESTRIAL ISOPODS (CRUSTACEA: ONISCIDEA) FROM CROATIA

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Bedeck, J., Taiti, S. & Gottstein, S.: Catalogue and atlas of cave-dwelling terrestrial isopods (Crustacea: Oniscidea) from Croatia. Nat. Croat., Vol. 20, No. 2., 237–354, 2011, Zagreb.

This paper presents a checklist with historical overview and new records on the cave-dwelling terrestrial isopods (troglophiles and troglobionts) from Croatia, based on detailed analyses of available literature and unpublished data from collections. For each species the following data are quoted: the name of the taxon; synonyms; general distribution; type locality; ecological status; list of locality records; species names used in the cited literature; the distribution map using 10 × 10 km UTM grid squares. Annexes with the locality synonyms used in the examined literature and collection data are enclosed. Altogether this paper presents data from 557 caves, 6 artificial underground structures and 15 other epigean and subterranean localities. A checklist of cave terrestrial isopod taxa in Croatia is composed of 35 species and five subspecies distributed in five families, including 22 Croatian endemic and 20 troglobiotic taxa. The family Trichoniscidae and the subfamily Trichoniscinae are the most representative with 26 and 20 species, respectively. The most represented genus is *Alpioniscus* with 10 species. The South Croatian Littoral macroregion has the highest number of species and endemics among Croatian macroregions. The most widely distributed species in Croatia are the troglophiles *Mesoniscus graniger* and *Androniscus roseus* found in three macroregions. Only four troglobiotic species (*Alpioniscus balthasari*, *A. strasseri*, *Titanethes albus* and *T. dahli*) are distributed in two macroregions, while the rest are distributed only in single macroregions. All the 40 Croatian cave taxa are distributed in the Dinaric karst area, and only three troglophilic species are found also outside. No Croatian endemic taxa are found outside the Dinaric karst area.

Key words: checklist, endemic taxa, Dinaric karst, biodiversity, distribution

Bedeck, J., Taiti, S. & Gottstein, S.: Katalog i atlas špiljskih kopnenih jednakonožnih rakova (Crustacea: Oniscidea) Hrvatske. Nat. Croat., Vol. 20, No. 2., 237–354, 2011, Zagreb.

U ovom radu je prikazan popis vrsta s povijesnim pregledom i novim nalazima špiljskih jednakonožnih kopnenih rakova, koji se temelji na detaljnoj analizi dostupne literature o špiljskim jednakonožnim rakovima te neobjavljenim podacima iz zbirki. Popisani su svi poznati špiljski jednakonožni rakovi (troglofili i troglobionti). Za svaku vrstu se navode sljedeći podaci: ime svoje; sinonimi; opća

rasprostranjenost; tipski lokalitet; ekološki status; popis nalaza; ime vrste upotrijebljeno u citiranoj literaturi; karta rasprostranjenosti na UTM mreži 10×10 km. Priloženi su dodaci s popisom sinonima objekata upotrijebljenih u citiranoj literaturi te podaci iz zbirki. Sveukupno rad obuhvaća podatke iz 557 speleološka objekta, šest podzemnih građevina i 15 ostalih nadzemnih i podzemnih lokaliteta. Popis šipljiskih svojstava utvrđenih do danas za područje Hrvatske obuhvaća 35 vrsta i pet podvrsta unutar pet porodica koje uključuju 22 endema Hrvatske i 20 troglobionata. S obzirom na broj vrsta najzastupljenja je porodica Trichoniscidae (26 vrsta) i potporodica Trichoniscinae (20 vrsta). Rod *Alpioniscus* sa 10 vrsta je najučestaliji. Makroregija južno hrvatsko primorje ima mnogo više vrsta i endema od ostalih regija. Najšire rasprostranjene vrste su troglofilne vrste *Mesoniscus graniger*, *Androniscus roseus* i troglobiontna vrsta *Androniscus stygius*, rasprostranjene u tri makroregije. Samo četiri troglobiontna vrsta (*Alpioniscus balthasari*, *A. strasseri*, *Titanethes albus* i *T. dahli*) su rasprostranjene u dvije makroregije, ostale su utvrđene samo u jednoj. Od 40 šipljiskih svojstava su rasprostranjene u Dinarskom kršu a samo tri izvan Dinarskog krša. Izvan Dinarskog krša nema Hrvatskih endemske svojstva.

Ključne riječi: popis vrsta, endemi, dinarski krš, bioraznolikost, rasprostranjenost

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INTRODUCTION

In Croatia 130 species and 30 subspecies of terrestrial isopods have been recorded to date, 59 species and 17 subspecies being endemic to Croatia (ARCANGELI, 1939a, POTOČNIK, 1989, SCHMALFUSS, 2003, FARKAS & KRČMAR, 2004, FARKAS & VILISICS, 2008, BEDEK & TAITI, 2009, KARAMAN *et al.*, 2009). This paper presents an overview of the present knowledge on cave-dwelling terrestrial isopods, and is based on data available in the literature and unpublished data from collections.

HISTORICAL REVIEW

The first known data about terrestrial isopods from Croatian caves were given by the school teacher **Eugen Adolf Jurinac** from Varaždin. He performed the first systematic biospeleological research in the period from 15th to 31st August 1883 in the Kordun region. Among other cave animals he collected *Titanethes albus* (C. Koch, 1841) in three caves in the Ogulin region (JURINAC, 1886, 1888). In the beginning of the 20th century the director of the Croatian Natural History Museum **August Langhoffer** led major biospeleological surveys in Kordun, Gorski Kotar, Lika and Zagreb (LANGHOFFER, 1912, 1915a, 1915b) and the entomologist **Victor Stiller** from Zagreb also explored Kordun and Gorski Kotar (STILLER, 1911a, 1911b, 1913, 1914). The Dalmatian cave fauna was first investigated by **Umberto Girometta**, a school teacher and speleologist from Split, and his students from 1912 to 1914 (GIOMETTA, 1913, 1914). A mammalogist from Vienna, **Otto Wettstein**, explored

caves on the island of Brač in 1912 in an expedition organized by the biologist Prof. Dr. Franz Werner (WETTSTEIN, 1914). They all collected different species of the genera *Alpioniscus*, *Androniscus* and *Titanethes*, but mostly misidentified them as *Titanethes albus* or *Trichoniscus roseus*. All known data from that period were reviewed by the Hungarian isopodologist Ernö Csiki in his famous paper »Magyarország szárazföldi Isopodái. (Isopoda terrestria Hungariae)« (CSIKI, 1926).

From the beginning of the 20th century many foreign biologists (mostly entomologists) collected numerous specimens from caves, including terrestrial isopods. The collected material resulted in a lot of new species being described, mostly in the thirties of the last century. The first scientific analyses date to 1926, when the Italian isopodologist Alceste Arcangeli described the troglophilic species *Oroniscus stentai* (as *Porellio stentai*) from Brač; this had been collected in 1903 by Josef (Giuseppe) Müller, coleopterologist from Trieste, born in Zadar (ARCANGELI, 1926). The German isopodologist Karl Verhoeff analyzed material from Istria collected by the diplopodologist Karl Strasser (VERHOEFF, 1929a, 1929b). The Hungarian isopodologist Adorján Kesselyák described the troglophilic subspecies *Androniscus stygius microcaverniculus* (as *Androniscus roseus microcaverniculus*), which he had collected on Mt. Učka in 1928 and 1929 (KESSELYÁK, 1931). Verhoeff described two new troglobiotic species from the island of Korčula collected by German zoologist Fritz Haas, *Alpioniscus haasi* (as *Illyrionethes haasi*) and *Aegonethes cervinus* (as *Illyrionethes cervinus*) (VERHOEFF, 1931a, 1931b). A new troglophilic subspecies from Istria, *Androniscus roseus histriana* (as *Trichoniscus roseus histriana*), collected by Italian biologist Pietro Parenzan, was described by Arcangeli (ARCANGELI, 1932). Czech biologist Karel Absolon, one of the most famous explorers of Dinaric caves, collected fauna on the island of Mljet in 1917. Out of that material the Austrian isopodologist Hans Strouhal in 1934 described the troglophilic species *Echinarmadillidium absoloni*, for which Verhoeff in 1939 described a new genus, *Cyphodillidium* (STROUHAL, 1934, VERHOEFF, 1939). The Slovak isopodologist Zdeněk Frankenberger made a two-week-long fieldtrip in Dalmatia in June 1937 and described the new troglobiotic species *Alpioniscus balthasari* (as *Illyrionethes balthasari*) (FRANKENBERGER, 1937). In the same year Strouhal described two new troglophilic species from the genus *Oroniscus* collected by Absolon in 1914 from central Dalmatia (*O. dalmaticus*) and in 1917 from the island of Mljet (*O. meledensis*) (STROUHAL, 1937). The German biospeleologist Beno Wolf listed all cave isopods known up to 1935 in his famous »Animalium Cavernarum Catalogus« (WOLF, 1938). The Czech arachnologist Josef Kratochvíl collected material from Dalmatia on his fieldtrips through the former Yugoslavia. His material was analyzed by Frankenberger who described five new species: *Typhlarmadillidium kratochvili* (as *Cylisticus kratochvili*) from the island of Korčula, *Alpioniscus magnus* (as *Illyrionethes magnus*) from the island of Brač, *Alpioniscus kratochvili* (as *Illyrionethes kratochvili*) from the island of Hvar, and *Cyphopleon kratochvili* (as *Cyphoniscellus kratochvili*) from Mt. Svilaja. He also erected the new genus *Aegonethes* for the species *Illyrionethes cervinus* from the islands of Korčula and Vis. The new species *A. antilocapra* is also described by FRANKENBERGER (1938a, 1938b, 1939). Strouhal analyzed material from the Natural History Museum in Vienna, collected by Czech coleopterologist Joseph Klimesch in 1913 and Werner in 1927, and described the new troglobiotic species *Alpioniscus verhoeffi* (as *Illyrionethes verhoeffi*) from the Neretva River collected by Austrian biologist Joseph Erber in 1861 (STROUHAL, 1938). He also analyzed material from the collection »Biospeleo-

logica balcanica« gathered by **Absolon** and published the results in a series of papers named »*Landasseln aus Balkanhöhlen, in der Sammlung Biospeleolgia balcanica*« and »*Landasseln aus Balkanhöhlen, gesammelt von Prof. Dr. K. Absolon*«. Many researchers besides **Absolon** contributed in collecting terrestrial isopods. **Strouhal** published many new biogeographical data for a lot of species and described many new genera and species from the Balkan region. From Croatia he described the new genus and species *Troglocyphoniscus absoloni* from the island of Mljet (STROUHAL, 1939a, 1939b, 1939c, 1939d, 1939e). In 1940 **Frankenberger** and **Strouhal** summarized all the data, which ended a very important period for the knowledge of cave terrestrial isopods in Croatia.

In the fifties and the sixties of the last century the isopodologist **Adem Buturović** from Sarajevo continued the study of terrestrial isopods on material collected by the arachnologist **Franjo Nikolić** from Dubrovnik from 1951 to 1953, by the Serbian biologist **Stanko Karaman** from 1924 to 1953, and material collected by himself in 1954. He described the new troglophilic subspecies *Trichoniscus matulici metkovicensis* from the surroundings of Metković and the troglobiotic species *Alpioniscus trogirensis* from the surroundings of Trogir, and added many new biogeographical data for other known species (BUTUROVIĆ, 1955b, 1955c, 1963). In 1966 the biologist **Mladen Karaman**, son of **Stanko Karaman**, published a complete review of terrestrial isopods from Yugoslavia (KARAMAN, 1966). After that there was one long period of silence, which was ended by the Slovenian isopodologist **Franc Potočnik** with the description of the troglobiotic species *Alpioniscus christiani*, collected on the island of Krk by the Austrian collembologist **Erhard Christian** (POTOČNIK, 1983). **Potočnik** carried out a survey of the fauna of terrestrial isopods of Yugoslavia (POTOČNIK, 1989).

Since 1970 the biospeleologist and technician from the Croatian Natural History Museum **Branko Jalžić** has collected material of terrestrial isopods from Croatia (JALŽIĆ & BOŽIČEVIĆ, 1975, KEROVEC *et al.*, 1999, JALŽIĆ, 2001). With many colleagues he established the Croatian Biospeleological Society in 1996. During biospeleological research since 1989 **Roman Ozimec** has collected terrestrial isopods (OZIMEC, 2003, OZIMEC, 2009), and assembled a great amount of references. Since the 1990s, terrestrial isopods have been collected also by **Tonći Rađa** (VUJČIĆ-KARLO & RAĐA, 2004). Through the work of the Croatian Biospeleological Society many people have become involved in the collection of cave animals, including terrestrial isopods: **Marijana Franičević**, **Tomica Rubinić**, **Hrvoje Cvitanović**, **Gordan Polić**, **Stipe Bušelić**, **Helena Bilandžija**, **Marko Lukić**, **Martina Pavlek**, **Predrag Rade**, **Ana Komorički**, **Kazimir Miculinić**, **Robert Baković**, **Vedran Jalžić**, **Fanica Kljaković Gašpić**, **Alen Kirin**, **Petra Kovač Konrad**, and some young biology students such as **Petra Bregović**, **Nikolina Raguž**, **Tamara Čuković**, **Andela Ćukušić**, **Lana Đud**, **Dajana Hmura**, **Marta Malenica**, **Petra Kutleša** and many others. Most of these samples have been examined by **J. Bedek** since 2000 (BEDEK *et al.*, 2000, GOTTSSTEIN MATOČEC *et al.*, 2002, OZIMEC, 2004, 2005, OZIMEC & BEDEK, 2005, BEDEK 2005a, 2005b, 2007a, 2007b, JALŽIĆ *et al.*, 2007, BAKŠIĆ *et al.*, 2008, BEDEK *et al.*, 2008, OZIMEC *et al.*, 2008, LUKIĆ *et al.*, 2009), which resulted in the descriptions of two new species in 2009: *Strouhaloniscellus biokovoensis* from Mt. Biokovo (BEDEK & TAITI, 2009), and *Thaumatoniscellus speluncae* from Mt. Učka (KARAMAN *et al.*, 2009) The present paper deals with part of the results from field work carried out in the last 15 years by the Croatian Biospeleological Society and the Croatian Natural History Museum; the remaining results with descriptions of several new taxa will be published in future papers.

MATERIALS AND METHODS

This paper is based on a review of data of all available literature and on unpublished data. Cave-dwelling taxa of terrestrial isopods (troglophiles and troglobionts) are listed in this catalogue with all known locality records, both from subterranean and epigean environment.

Unpublished data come from projects of the Croatian Biospeleological Society and the Croatian Natural History Museum on the cave fauna of Croatia. Only taxa identified to the level of species and subspecies are listed, while unidentified specimens and new species are not included. A lot of material was collected in cooperation with other organizations, especially the speleological societies: SO PDS Velebit, SO HPD Željezničar, DDISKF, SK Samobor, SK Ursus spelaeus, SU Estavela, SU Spelunka, SO PD Dubovac, SD Karlovac and the Biological Students Society BIUS. Part of the Crustacea Collection from the Croatian Natural History Museum was also examined, collected in 1883 by Adolf Jurinac, in 1902 by August Langhoffer, and by Dragutin Hirc (unknown date).

Isopods in caves were collected using tweezers in all habitats and preserved in 75% ethanol with glycerol. Micropreparations in Hoyer's medium of the most important body parts were used for identifications. The collected material has been deposited in the collections of the Croatian Biospeleological Society, the Croatian Natural History Museum, the Museo di Storia Naturale dell'Università di Firenze, Sezione di Zoologia »La Specola« in Italy, the Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Serbia and the Tonći Rađa private collection. The collection of the Croatian Biospeleological Society has been deposited in the Croatian Natural History Museum.

For each species the following data are quoted:

1. Ordinal number. All taxa are marked with Arabic numerals. Taxa that are only doubtfully present in Croatia are not marked with a number.
2. Taxa names. Taxonomic arrangement and nomenclature follows SCHMALFUSS (2003).
3. Synonyms.
4. Distribution.
5. Type locality. The valid name is given with original names of type localities in square brackets.
6. Ecological status. If there are no literature data, ecological status is given according to SKET (2008).
7. List of localities.
 - The valid names of the localities in Croatian language according to topographic and speleological nomenclature are included. Frequent terms for types of feature are: špilja, spilja, spila, peć, pećina = cave; jama, jametina, rupa = pit; kaverna = cavern; ledenica = ice cave; sniježnica = snow cave; izvor špilja = spring cave; ponor = sinkhole; pukotina = crevice; sustav = cave system; rudnik = mine.
 - Localities are listed by level of precision of given locality (the most precise localities are at the beginning), then by alphabetical order of UTM grid squares, then by alphabetical order of the name of the locality. Misidentifications, doubtful data and misinterpreted data are placed at the end of the table.

- The UTM grid with squares of a 10×10 km is used. Data are taken from the UTM 1:500000 map of the world. If it is not established in which UTM square the feature is located, when possible the UTM reference for a 100×100 km field is given.
 - The macroregion reference according to ROGLIĆ (1974) is given.
 - Source of the record is given.
8. Species names used in cited literature, whether they are misidentifications or misprints, are listed below the table with listed localities.
9. The Croatian distribution of each species is mapped using the 10×10 km UTM grid squares on the map of Croatian territory with macroregions according to ROGLIĆ (1974) (Fig. 1). The other less precise localities are not mapped, except if they are distant from other localities of that taxa. The localities for which the 10×10 km UTM square is precise are marked with a circle or triangle and localities for which the 10×10 km UTM square is not precise are marked with a transparent square.
10. Locality names used in the references with their present real name are listed by alphabetical order in Appendix 1. In Appendix 2 collection records with collector(s) and dates are given. All localities with their present real name are listed in alphabetical order in Appendix 3.

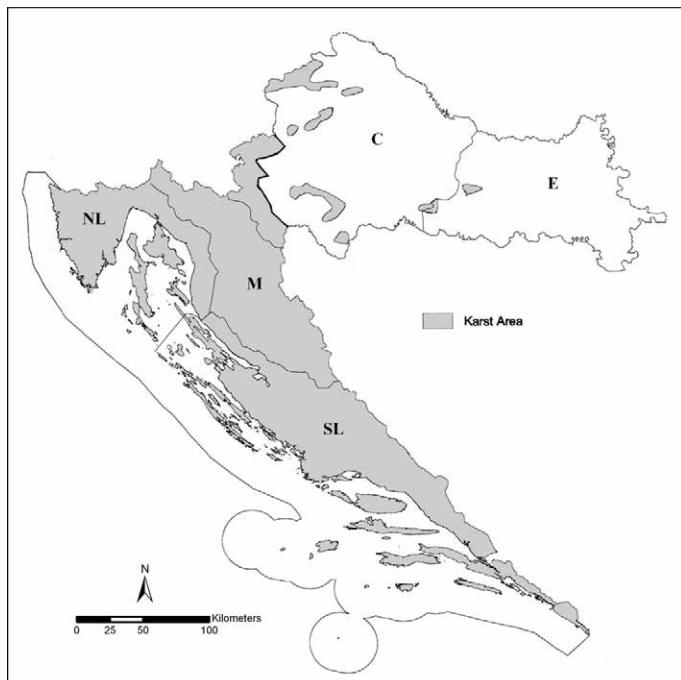


Fig. 1. Croatian macroregions defined according to ROGLIĆ (1974) with the distribution of karst areas according to GOTTSSTEIN MATOČEC *et al.* (2002). The Dinaric karst is divided with a thick line. E (Eastern Croatia); C (Central Croatia); M (Mountainous Croatia); NL (Northern Croatian Littoral); SL (Southern Croatian Littoral).

RESULTS

MESONISCIDAE

1. *Mesoniscus graniger* (Frivaldszky, 1865) (Tab. 1, Fig. 2)

- Synonyms: *Titanethes graniger* Frivaldszky, 1865; *M. alpicola meridionalis* Chappuis, 1944; *M. alpicola vulgaris* Chappuis, 1944; *M. histriana* Arcangeli, 1939; *M. prenjanus* Arcangeli, 1939; *M. triangulifer* Verhoeff, 1930; *Nematoniscus illyricus* Verhoeff, 1933; *N. prenjanus* (Verhoeff, 1901); *N. triangulifer* Verhoeff, 1930; *Schiödta graniger* (Frivaldszky, 1865); *Titanethes graniger* Heller, 1858; *Trichoniscus prenjanus* Verhoeff, 1901
- Distribution: Slovenia, Serbia, Bosnia and Herzegovina, Slovakia, Romania (SCHMALFUSS, 2003); Croatia (ARCANGELI, 1939a)
- Type locality: Baradla barlang (cave system), Aggtelek, Hungary [Aggteleki barlang (FRI-VALDSKY, 1865)]
- Ecological status: In caves, but also under big rocks in deep soil (GIURGINCA, 2009); troglophilic

Tab. 1. List of recorded localities for *Mesoniscus graniger*

| Locality | UTM | Region | Source |
|--|------|--------|------------------------------------|
| Jastrebina (cave), Frketić Selo, Novigrad na Dobri, Karlovac | WL33 | C | CBSS collection 1 |
| Jama bijele sige (cave), Ponikve, Gornji Stenjevac, Medvednica, Zagreb | WL67 | C | CBSS collection 2 BEDEK, 2007b |
| Petnaestica (cave), Ponikve, Gornji Stenjevac, Medvednica, Zagreb | WL67 | C | CBSS collection 3 BEDEK, 2007b |
| Veternica (cave), Gornji Stenjevac, Medvednica, Zagreb | WL67 | C | CBSS collection 4 BEDEK, 2007b |
| Francuski rudnik IV (mine), Sljeme, Medvednica, Zagreb | WL87 | C | CBSS collection 5 BEDEK, 2007b |
| Medvednica (cave), Horvatove stube, Medvednica, Zagreb | WL87 | C | CBSS collection 6 BEDEK, 2007b |
| Rudnik Zrinski (mine), Sljeme, Medvednica, Zagreb | WL87 | C | CBSS collection 7 BEDEK, 2007b |
| Velika peć na Rogu (cave), Kašina, Medvednica, Zagreb | WL88 | C | CBSS collection 8 BEDEK, 2007b |
| Rudnik Kraševski zviri (mine), Lipovje, Prigorec, Ivančica, Ivanec | WM81 | C | CBSS collection 9 |
| Gradusa (cave), Sjeverovac, Petrinja, Banovina | XL12 | C | CBSS collection 10 |
| Bijeli bunar (spring cave), Voćin | XL95 | E | CBSS collection 11 BEDEK, 2007b |
| Luda buža (endogean), Papuk, Velika, Papuk | YL04 | E | CBSS collection 12 BEDEK, 2007b |
| Medvjedji brlog (cave), Papuk, Velika, Papuk | YL04 | E | CBSS collection 13 BEDEK, 2007b |
| Uviraljka (endogean), Papuk, Velika, Papuk | YL04 | E | CBSS collection 14 |
| Jama iznad Jezerca (cave), Jezerac, Jankovac, Velika, Papuk | YL14 | E | CBSS collection 15 |
| Jama na Bilu (cave), Bilo, Velika, Papuk | YL14 | E | CBSS collection 16 |
| Jančikin guz (cave), Jankovac, Velika, Papuk | YL14 | E | CBSS collection 17 BEDEK, 2007b |
| Jelenova špilja (cave), Jankovac, Velika, Papuk | YL14 | E | CBSS collection 18 |
| Sedrena 1 kod slapa Skakavac (cave), Jankovac, Velika, Papuk | YL14 | E | CBSS collection 19 |

| | | | |
|---|----|----|---|
| Učka (endogean) | VL | NL | ARCANGELI, 1939a* |
| | | | GRUNER & TABACARU, 1963** |
| MISINTERPRETED LOCALITIES | | | |
| Jajce, Bosnia and Herzegovina | | | GIURGINCA, 2009 |
| Račiška pećina (cave, Slovenian cave cadastre no. 942), Račice, Račice, Starod, Slovenia | | | BEDEK <i>et al.</i> , 2006 GIURGINCA, 2009 |

*Monte Maggiore is most probably Učka Mt. in Istria, as indicated by the species name (*M. histrianorum*, junior synonym of *M. graniger*)

**In this paper the locality is placed in Italy, Julian Alps instead in Istria, Croatia.

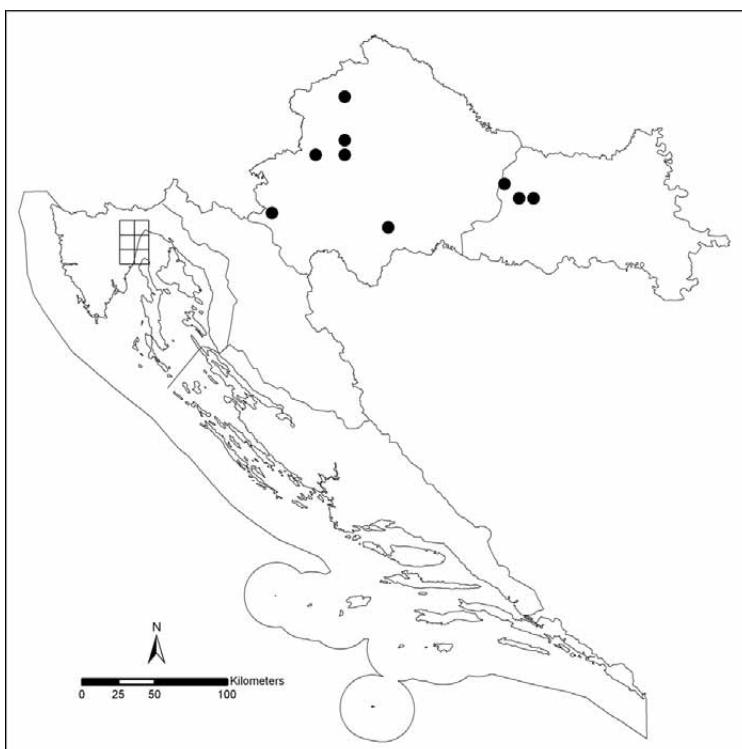


Fig. 2. Croatian distribution of *Mesoniscus graniger*.

TRICHONISCIDAE: TRICHONISCINAE

2. *Androniscus dentiger* Verhoeff, 1908 (Tab. 2, Fig. 3)

Synonyms: *Androniscus africanus* Arcangeli, 1939; *A. alpinus* Verhoeff, 1908; *A. carli* Strouhal, 1929; *A. weberi* Verhoeff, 1908; *Itea dentigera* (Verhoeff, 1908); *Stenasellus hazeltoni* (Collinge, 1946); *Trichoniscus dentiger* (Verhoeff, 1908), *Androniscus dentiger croaticus* Strouhal, 1939

- Distribution: Europe and North Africa, often synanthropically, also known from greenhouses in North America (SCHMALFUSS, 2003)
- Type locality: Santa Margherita, Liguria; Massa; Carrara and Forno, Tuscany, Italy [...westlich der Apenninen bei S. Margherita... bei Massa und Carrara, oberhalb Massa ... bei Forno in den apuanischen Bergen (VERHOEFF, 1908)]
- Ecological status: Endogean to troglophilic species (VANDEL, 1960b)
- Note: According to VANDEL (1960a) and examined specimens from its type locality, the subspecies *A. d. croaticus* Strouhal, 1939 is a junior synonym of *A. d. dentiger*.

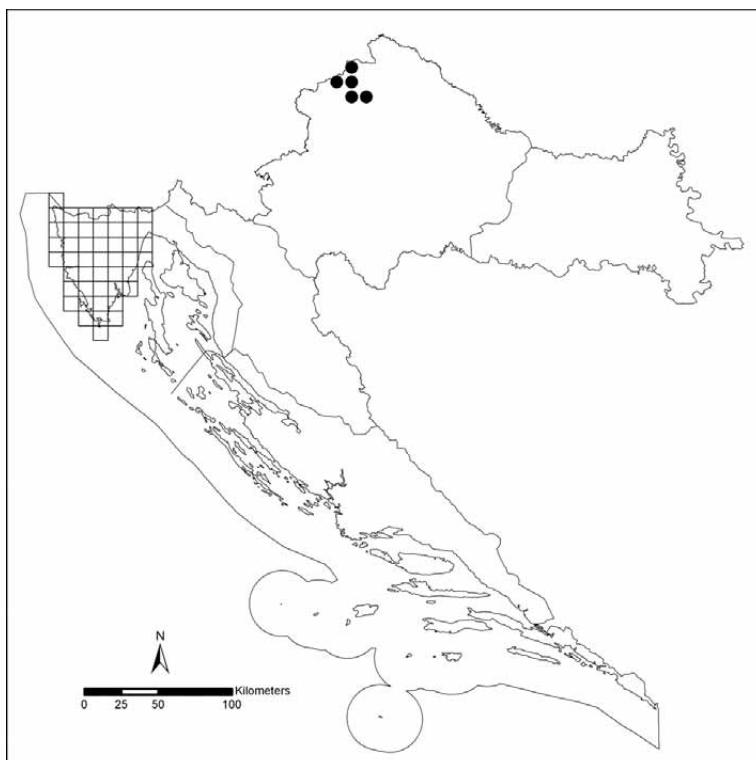


Fig. 3. Croatian distribution of *Androniscus dentiger*.

Tab. 2. List of recorded localities for *Androniscus dentiger*

| Locality | UTM | Region | Source |
|---|------|--------|--------------------|
| Cimerjanka (cave), Cimerplac, Lepoglava, Ravna gora | WM72 | C | CBSS collection 20 |
| Duplja (cave), Male Pećine, Bednjica, Klenovnik, Ravna gora | WM72 | C | CBSS collection 21 |
| Ledenica (cave), Male Pećine, Bednjica, Lepoglava, Ravna gora | WM72 | C | CBSS collection 22 |
| Rudnik u Velikoj Sotinskoj (mine), Velika Sotinska, Lepoglava, Ravna gora | WM72 | C | CBSS collection 23 |
| Špilja kod Dobre vode (cave), potok Kamenica, Lepoglava, Ravna gora | WM72 | C | CBSS collection 24 |

| | | | |
|--|------|----|---|
| Velika špilja (cave), Veliki Goranec, Klenovnik, Ravna gora | WM72 | C | CBSS collection 25 |
| | | | LANGHOFFER, 1915a ¹ |
| | | | STROUHAL, 1939d |
| | | | ARCANGELI, 1940 |
| | | | KARAMAN, 1966 |
| | | | BEDEK <i>et al.</i> , 2006 |
| Vihra (cave), potok Kamenica, Lepoglava, Ravna gora | WM72 | C | CBSS collection 26 |
| Vila (cave), Pintarići, Kameničko Podgorje, Klenovnik, Ravna gora | WM72 | C | CBSS collection 27 |
| Hanžekova špilja (cave), Belec grad, Ivanščica, Zlatar | WM81 | C | CBSS collection 28 |
| Jama ispod Belec grada (cave), Belec grad, Ivanščica, Zlatar | WM81 | C | CBSS collection 29 |
| Cerjanska špilja (cave), Klenovnik, Ravna gora | WM82 | C | CBSS collection 30 |
| | | | LANGHOFFER, 1915a ¹ |
| | | | STROUHAL, 1939d |
| | | | ARCANGELI, 1940 |
| | | | KARAMAN, 1966 |
| Cinkalica 1 (cave), Kuča gora, Žakli, Veliki Goranec, Klenovnik | WM82 | C | CBSS collection 31 |
| Cinkalica 3 (cave), Lepoglava, Ravna gora | WM82 | C | CBSS collection 32 |
| Goranska Klepa (cave), Lepoglava, Ravna gora | WM82 | C | CBSS collection 33 |
| Kukelj sjever (cave), Kukelj, Galinci, Lepoglava, Ravna gora | WM82 | C | CBSS collection 34 |
| Špilja pod Butinom (cave), Mala Sotinska, Klenovnik, Lepoglava, Ravna gora | WM82 | C | CBSS collection 35 |
| Vindija (cave), Zlogonje, Klenovnik, Ravna gora | WM82 | C | CBSS collection 36 |
| | | | LANGHOFFER, 1915a ¹ |
| | | | STROUHAL, 1939d |
| | | | ARCANGELI, 1940 |
| | | | KARAMAN, 1966 |
| Zdenec pri Ciglaru (cave), Ciglar, Klenovnik, Ravna gora | WM82 | C | CBSS collection 37 |
| | | | LANGHOFFER, 1915a ¹ |
| | | | STROUHAL, 1939d |
| | | | STROUHAL, 1939e |
| | | | ARCANGELI, 1940 |
| Plitvička špilja (cave), Plitvica, Peščenica Vinička, Vinica | WM83 | C | KARAMAN, 1966 |
| | | | CBSS collection 38 |
| | | | Školjkača (cave), Plitvica, Peščenica Vinička, Vinica |
| | | | CBSS collection 39 |
| | | | Cingulica pod Židovinom (cave), Židovina, Mikulčići Gornji, Ivanščica, Zlatar |
| From SE Italy to the Cetina region | | | CBSS collection 40 |
| Istria | | NL | STROUHAL, 1940a |
| | | | STROUHAL, 1939d |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Croatia | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | VANDEL, 1960a |
| | | | SCHMÖLZER, 1965a |
| | | | POTOČNIK, 1989 |

¹ *Trichoniscus roseus*

3. *Androniscus roseus buccariensis* Verhoeff, 1930 (Tab. 3, Fig. 4)

Distribution: Slovenia, Croatia (POTOČNIK, 1989)
 Type locality: Uvala kod Bakra (bay), Bakar, Hrvatsko primorje, Croatia [Bucht von Bucari (VERHOEFF, 1930)]
 Ecological status: Troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 3. List of recorded localities for *Androniscus roseus buccariensis*

| Locality | UTM | Region | Source |
|---|------|--------|--------------------------------|
| Vrana (lake), Cres | VK56 | NL | VERHOEFF, 1938 |
| | | | KARAMAN, 1966 |
| Špilja iznad ceste (cave), brodogradilište V. Lenac, Kostrena, Rijeka | VL51 | NL | CBSS collection 41 |
| Bunker blizu uvale Perilo (bunker), Perilo, Kostrena, Rijeka | VL61 | NL | CBSS collection 42 |
| Rudnik iznad uvale Martinščica (mine), Martinščica, Kostrena, Rijeka | | | LUKIĆ et al., 2011 |
| Špilja u uvali Svežanj (cave), uvala Svežanj, Paveki, Bakar | VL61 | NL | CBSS collection 44 |
| Urinjska špilja (cave), Urinj, Kostrena, Rijeka | VL61 | NL | CBSS collection 45 |
| Uvala kod Bakra (bay), Bakar | VL61 | NL | VERHOEFF, 1930 |
| | | | STROUHAL, 1938 |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Cres | | NL | FRANKENBERGER & STROUHAL, 1940 |
| From SE Italy to the Cetina region | | | VERHOEFF, 1940 |
| Croatia | | | VERHOEFF, 1931c |
| | | | SCHMÖLZER, 1965a |
| | | | POTOČNIK, 1989 |
| | | | KARAMAN & ČEMERLIĆ, 2002 |

¹ *Androniscus* sp.

4. *Androniscus roseus histrianorum* (Arcangeli, 1932) (Tab. 4, Fig. 4)

Synonyms: *Trichoniscus roseus histrianorum* Arcangeli, 1932; *Androniscus histrianorum* (Arcangeli, 1932)
 Distribution: Croatia (POTOČNIK, 1989)
 Type locality: Špilja na Gradini kod Premanture (cave), Premantura, Pula, Istria, Croatia [caverna presso Promontore, dintorini di Pola, Istria (ARCANGELI, 1932)]
 Ecological status: Troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 4. List of recorded localities for *Androniscus roseus histrianae*

| Locality | UTM | Region | Source |
|---|------|--------|--------------------------------|
| Špilja na Gradini kod Premanture (cave), Premantura, Pula | VK16 | NL | CBSS collection 46 |
| | | | ARCANGELI, 1932 |
| | | | ARCANGELI, 1938 |
| | | | WOLF, 1938 |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | GOTTSTEIN <i>et al.</i> , 2001 |
| | | | BEDEK <i>et al.</i> , 2006 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

5. *Androniscus roseus ocellatus* (Kesselyak, 1930) (Tab. 5, Fig. 4)

- Synonyms: *Androniscus stygius ocellatus* Kesselyak, 1930
 Distribution: Croatia (KESSELYAK, 1930)
 Type locality: Velebit?, Croatia [in Kroatien, vermutlich im Velebitgebirge (KESSELYAK, 1930)]
 Ecological status: unknown

Tab. 5. List of recorded localities for *Androniscus roseus ocellatus*

| Locality | UTM | Region | Source |
|----------|-----|--------|------------------------------------|
| Velebit? | | NL? | KESSELYÁK, 1930 ARCANGELI, 1938 |

6. *Androniscus roseus roseus* (C. Koch, 1838) (Tab. 6, Fig. 4)

- Synonyms: *Itea rosea* C. Koch, 1838; *Trichoniscus roseus* (C. Koch, 1838); *T. roseus* var. *nanus* Carl, 1908; *Androniscus carynthiacus* Verhoeff, 1908; *Trichoniscus (Androniscus) carynthiacus* (Verhoeff, 1908); *Philouugria rosea* (C. Koch, 1838)
 Distribution: From eastern France to Romania, north to southern Germany (not in Bulgaria and Greece) (SCHMALFUSS, 2003)
 Type locality: Germany [Deutschlands (C. KOCH, 1838)]
 Ecological status: Troglophilic (STROUHAL, 1940a)

Tab. 6. List of recorded localities for *Androniscus roseus roseus*

| Locality | UTM | Region | Source |
|---|------|--------|--------------------|
| Porto Madonna (cave), Savudrija | UL83 | NL | VERHOEFF, 1929b |
| | | | WOLF, 1938 |
| Druška peć (cave), Moščenička draga, Potoki, Lovran | VL41 | NL | CBSS collection 47 |
| Oporovina (cave), Oraji, Tuliševica, Učka, Lovran | VL41 | NL | CBSS collection 48 |
| Vele vode (sinkhole), Crni Lug | VL73 | M | CBSS collection 49 |

| | | | |
|---|------|---|--------------------|
| Oteška pećina (cave), Perušić, Gospic | WK34 | M | LANGHOFFER, 1912 |
| | | | LANGHOFFER, 1915b |
| | | | CSIKI, 1926 |
| | | | WOLF, 1938 |
| Sušik (sinkhole), Drežničko polje, Drežnica, Velika Kapela | WL00 | M | CBSS collection 50 |
| Hajdučka pećina (cave), Bistrac, Gornje Dubrave, Ogulin | WL21 | M | LANGHOFFER, 1915a |
| Izvor špilja kod Trošmarije (cave), kanjon Dobre, Trošmarija, Ogulin | WL21 | M | CBSS collection 51 |
| Sušica (sinkhole), Rebića Glavica, Generalski Stol | WL21 | M | CBSS collection 52 |
| Tounjčica (cave), Kanjon Tounjčice, Tounj | WL21 | M | CBSS collection 53 |
| Bibička špilja (cave), kanjon Ribnjaka, Munjasi, Trošmarija | WL22 | M | CBSS collection 54 |
| Danetska pećina (cave), kanjon Dobre, Dani, Bosiljevo | WL22 | M | CBSS collection 55 |
| Dragina pećina na Dobri (cave), kanjon Dobre, Grabrk, Trošmarija, Karlovac | WL22 | M | CBSS collection 56 |
| Đukina velika špilja (cave), kanjon Ribnjaka, Trošmarija, Karlovac | WL22 | M | CBSS collection 57 |
| Špilja kod Podumolskog mlina (cave), kanjon Dobre, Podumol, Bosiljevo | WL22 | M | CBSS collection 58 |
| Špilja kod slapa kod Kasunića (cave), kanjon Dobre, Kasunići, Generalski Stol | WL22 | M | CBSS collection 59 |
| Špilja u kanjonu Dobre ispod Podjakšića (cave), kanjon Dobre, Podjakšići, Generalski Stol | WL22 | M | CBSS collection 60 |
| Cepinka (cave), Boići, Sošice, Žumberak | WL26 | C | CBSS collection 61 |
| Jama u Vrloj strani (cave), Gudalji Radatovići, Žumberak | WL26 | C | CBSS collection 62 |
| Pušina (cave), Jezernice, Sošice, Žumberak | WL26 | C | CBSS collection 63 |
| Ledenička špilja (cave), Rebrovići, Tounj | WL31 | M | LANGHOFFER, 1915a |
| Lipa na Protulipi (cave), Starešinići, Protulipa, Bosiljevo | WL32 | C | CBSS collection 64 |
| Jastrebina (cave), Frketić Selo, Novigrad na Dobri, Karlovac | WL33 | C | CBSS collection 65 |
| Jama pod Gradom (cave), Dugi vrh, Cerovica, Krašić, Žumberak | WL35 | C | CBSS collection 66 |
| Ozaljska špilja (cave), Ozalj, Karlovac | WL35 | C | LANGHOFFER, 1912 |
| | | | CSIKI, 1926 |
| | | | WOLF, 1938 |
| Stankova špilja (cave), kanjon Kupe, Kamanje, Ozalj, Karlovac | WL35 | C | CBSS collection 67 |
| Vrlovka (cave), kanjon Kupe, Kamanje, Ozalj, Karlovac | WL35 | C | CBSS collection 68 |
| Špilja pod Vrajinim stijenama (cave), Tomaševci, Sošice, Žumberak | WL36 | C | CBSS collection 69 |
| Vranjačka špilja (cave), Slapnica, Medven Draga, Krašić, Žumberak | WL36 | C | CBSS collection 70 |
| Židovske kuće (cave), Cerovica, Sošice, Žumberak | WL37 | C | CBSS collection 71 |
| Dvogaća (cave), Ponikve, Glavica, Zagreb, Medvednica | WL67 | C | CBSS collection 72 |
| Horvatove stube (soil), Sljeme, Zagreb, Medvednica | WL78 | C | CBSS collection 73 |
| Croatia | | | PAOLETTI, 1978 |

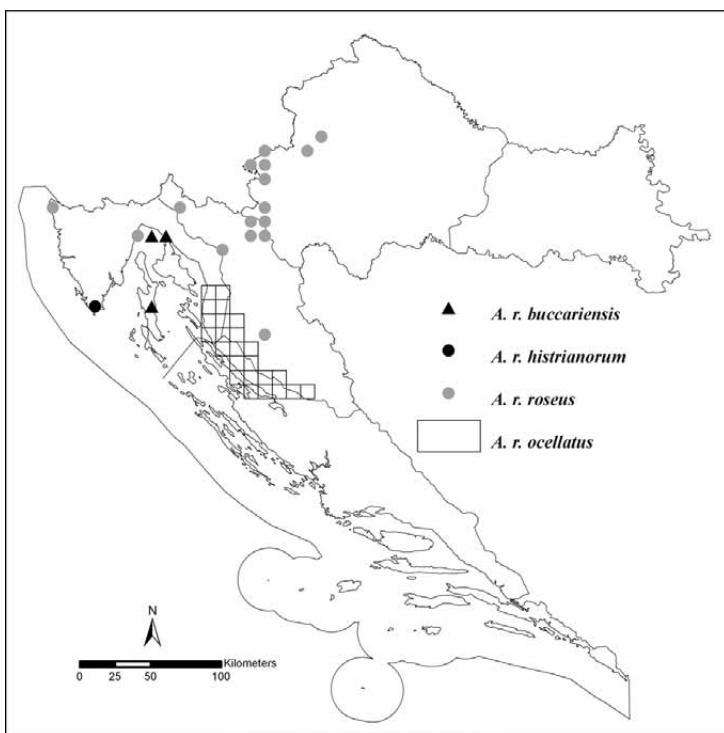


Fig. 4. Croatian distribution of *Androniscus roseus*.

7. *Androniscus stygius microcaverniculus* Kesselyak, 1931 (Tab. 7, Fig. 5)

- Synonyms: *Androniscus roseus microcaverniculus* Kesselyak, 1931; *A. microcaverniculus* Kesselyak, 1931
- Distribution: Croatia (POTOČNIK, 1989) [in this paper the author considers this subspecies to be present also in Slovenia, but he does not confirm this in a subsequent review (POTOČNIK, 1992). No further records for Slovenia are known].
- Type locality: Špilja na Učki (cave), Lovran, Učka, Istria, Croatia [namenlosen Höhle an dem Monte Maggiore (Istrien) (KESSELYAK, 1931)]
- Ecological status: This subspecies has been considered to be troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957), but since all specimens were collected only deep in caves and are depigmented and blind, we prefer to consider this taxon as troglobiotic.

Tab. 7. List of recorded localities for *Androniscus stygius microcaverniculus*

| Locality | UTM | Region | Source |
|--|------|--------|--------------------|
| Jama kod crvenog gloga (cave), Mala Učka, Učka | VL31 | NL | CBSS collection 74 |
| Jama na Balaguštini (cave), Dobreč, Poklon, Učka | VL31 | NL | CBSS collection 75 |

| | | | |
|---|------|----|--|
| Mala peć (cave), Molinarska draga, Učka | VL31 | NL | CBSS collection 76 |
| Ovčja peć (cave), Molinarska draga, Učka | VL31 | NL | CBSS collection 77 |
| Petrčeva jama (cave), Petrc, Podmaj, Mala Učka, Učka | VL31 | NL | CBSS collection 78 |
| Rupa I (cave), Podmaj, Mala Učka, Učka | VL31 | NL | CBSS collection 79 |
| Rupa II (cave), Podmaj, Mala Učka, Učka | VL31 | NL | CBSS collection 80 |
| Topolska peć (cave), Topol, Poklon, Učka | VL31 | NL | CBSS collection 81 |
| Jama ispod Tominićevog brega (cave), Tominićev breg, Brest pod Učkom, Lupoglavl, Čićarija | VL32 | NL | CBSS collection 82 |
| Klanjčeva peć (cave), Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 83 |
| Pećina na Crekvici 1 (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 84 |
| Pećina poli Vrtića (cave), Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 85 |
| Jama pod Velikim Knezgradom (cave), Veliki Knezgrad, Tuliševica, Lovran, Učka | VL41 | NL | CBSS collection 86 |
| Jama na Mahencu 2 (cave), Mahenac, Veprinac, Opatija | VL42 | NL | CBSS collection 87 |
| Jama u Velim Sapsima 3 (cave), Mahenac, Veprinac, Opatija | VL42 | NL | CBSS collection 88 |
| Pećina kod sela Puhari (cave), Puhari, Veprinac, Opatija | VL42 | NL | CBSS collection 89 |
| Špilja na Učki (cave), Učka | VL | NL | KESSELYÁK, 1931 ARCANGELI, 1938 WOLF, 19381 FRANKENBERGER & STROUHAL, 1940 SCHMÖLZER, 1965a KARAMAN, 1966 GOTTSTEIN et al., 2001 SCHMIDT & LEISTIKOW, 2004 BEDEK et al., 2006 JALŽIĆ et al., 2010 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

8. *Androniscus stygius stygius* (Nemec, 1897) (Tab. 8, Fig. 5)

- Synonyms: *Trichoniscus stygius* Nemec, 1897; *Androniscus cavernarum* Verhoeff, 1908
- Distribution: SE-Austria, NE-Italy, Slovenia (SCHMALFUSS, 2003); Croatia (POTOČNIK, 1989)
- Type locality: Grotta dell'Orso (cave, Friuli Venezia Giulia cadastre no. 33, historical cadastre no. 7/VG), Trieste, Italy [Gabroviza-Grotte (NEMEC, 1897)]
- Ecological status: This subspecies has been considered to be troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957), but since all specimens were collected deep in caves and are depigmented and blind, we prefer to consider this taxon as troglobiotic.

Tab. 8. List of recorded localities for *Androniscus stygius stygius*

| Locality | UTM | Region | Source |
|---|------|--------|--|
| Vidovića špilja (cave), Drežničko polje, Drežnica, Velika Kapela, Ogulin | WL00 | M | CBSS collection 90 |
| Đulin ponor – Medvedica (cave system), Ogulin | WL11 | M | CBSS collection 91 |
| Jama 3 (cave), Malik, Kuštrovka, Trošmarija | WL12 | M | CBSS collection 92 |
| Jama na Bertiji 1 (cave), Bertija, Malik, Kuštrovka, Trošmarija | WL12 | M | CBSS collection 93 |
| Jama na Bertiji 2 (cave), Bertija, Malik, Kuštrovka, Trošmarija | WL12 | M | CBSS collection 94 |
| Kuštrovka (cave), Kuštrovka, Trošmarija | WL12 | M | CBSS collection 95 |
| Ambarac (sinkhole), Oštarije, Ogulin | WL20 | M | CBSS collection 96 |
| Mandelaja (cave), Oštarije, Ogulin | WL20 | M | CBSS collection 97 |
| Špilja u Mekoti (cave), Košare, Tounj | WL20 | M | CBSS collection 98 |
| Gugečka pećina (cave), Gornje Dubrave, Tounj | WL21 | M | CBSS collection 99 |
| Hajdučka pećina (cave), Bistrac, Gornje Dubrave, Ogulin | WL21 | M | CBSS collection 100 |
| Mikašinovića špilja (cave), Bistrica, Mikašinovići, Gornje Dubrave, Tounj | WL21 | M | CBSS collection 101 |
| Pećina u Gugečkom usjeku (cave), Gornje Dubrave, Tounj | WL21 | M | CNHM collection 1 CBSS collection 102 |
| Perčevića špilja (cave), Kanjon Tounjčice, Tounj | WL21 | M | CBSS collection 103 |
| Sušica (sinkhole), Rebića Glavica, Generalski Stol | WL21 | M | CBSS collection 104 |
| Šutovačka pećina (cave), kanjon Dobre, Trošmarija | WL21 | M | CBSS collection 105 |
| Tamnica (cave), Potok Tounjski, Tounj | WL21 | M | CBSS collection 106 |
| Tounjčica (cave), Kanjon Tounjčice, Tounj | WL21 | M | CBSS collection 107 |
| Vrelić (cave), Donje Dubrave, Generalski Stol | WL21 | M | CBSS collection 108 |
| Bibička špilja (cave), kanjon Ribnjaka, Munjasi, Trošmarija | WL22 | M | CBSS collection 109 |
| Jama II kod Kolića (cave), Kolići, Generalski Stol | WL22 | M | CBSS collection 110 |
| Jama kod Kasunića (cave), Kasunići, Generalski Stol | WL22 | M | CBSS collection 111 |
| Jama pod Gradanom (cave), Kolići, Generalski Stol | WL22 | M | CBSS collection 112 |
| Jama u kanjonu Dobre ispod Grabrka (cave), kanjon Dobre, Podumol, Bosiljevo | WL22 | M | CBSS collection 113 |
| Ledenica u Špeharima (cave), Špehari, Bosiljevo | WL22 | M | CBSS collection 114 |
| Paveća špilja (cave), kanjon Dobre, Soline, Bosiljevo | WL22 | M | CBSS collection 115 |
| Špilja u kanjonu Dobre ispod Podjakšića (cave), kanjon Dobre, Podjakšići, Generalski Stol | WL22 | M | CBSS collection 116 |
| Vodena jama (cave), Kolići, Generalski Stol | WL22 | M | CNHM collection 2 |
| Žučki (cave), Čažinka, Generalski Stol | WL22 | M | CBSS collection 117 |
| Ledenička špilja (cave), Rebrovići, Tounj | WL31 | M | CBSS collection 118 |
| Lipa na Protulipi (cave), Starešinići, Protulipa, Bosiljevo | WL32 | C | CBSS collection 119 |
| Vrlovka (cave), kanjon Kupe, Kamanje, Ozalj, Karlovac | WL35 | C | CBSS collection 120 |
| Croatia | | | ARGANO <i>et al.</i> , 1982 |

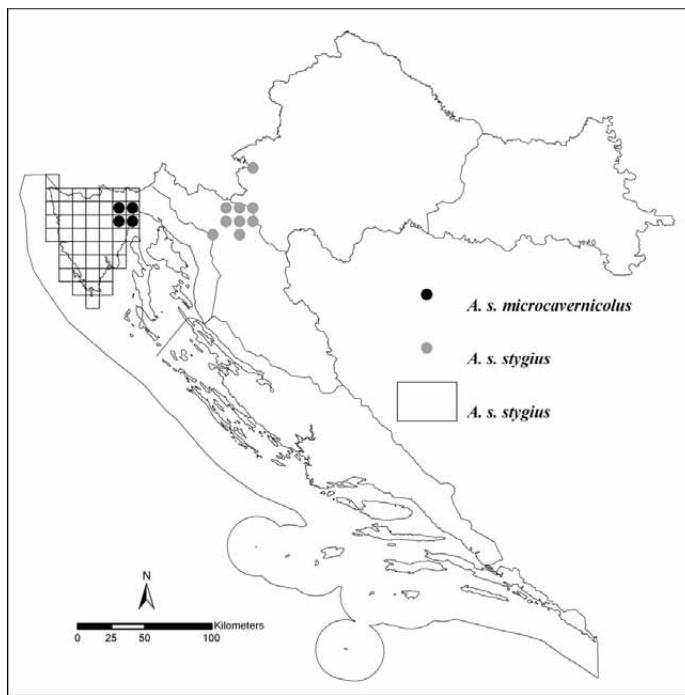


Fig. 5. Croatian distribution of *Androniscus stygius*.

9. *Androniscus wolfi* Strouhal, 1939 (Tab. 9, Fig. 6)

- Synonyms: *Androniscus dentiger wolfi* Strouhal, 1939
 Distribution: Croatia (POTOČNIK, 1989)
 Type locality: Vlaška peć (cave), Kozica, Senj, Hrvatsko primorje, Croatia [Vlaška Pećina bei Novi; BB Nr. 551 (STROUHAL, 1939d)]
 Ecological status: Troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957)
 Note: After examination of specimens from the type locality, *A. wolfi* is a valid species belonging to the subgenus *Roseoniscus* and not *Dentigeroniscus*, as already stated by VANDEL (1960a).

Tab. 9. List of recorded localities for *Androniscus wolfi*

| Locality | UTM | Region | Source |
|---|------|--------|---|
| Vlaška peć (cave), Kozica, Senj | VK99 | NL | CNHM collection 3 STROUHAL, 1939d FRANKENBERGER & STROUHAL, 1940 ARCANGELI, 1940 KARAMAN, 1966 GOTTSTEIN et al., 2001 VUJČIĆ-KARLO & RADA, 2004 BEDEK et al., 2006 |
| Mokrača (cave), Paklenica, Starigrad, Velebit | WK41 | SL | CBSS collection 121 |

| | | | |
|------------------------------------|--|--|--|
| Southern Velebit, Velebit | | | BEDEK <i>et al.</i> , 2000 |
| National Park Paklenica, Velebit | | | VUJČIĆ-KARLO & RADA, 2004 ¹ |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | SCHMÖLZER, 1965a POTOČNIK, 1989 |

¹ *Androniscus cf. wolfi*

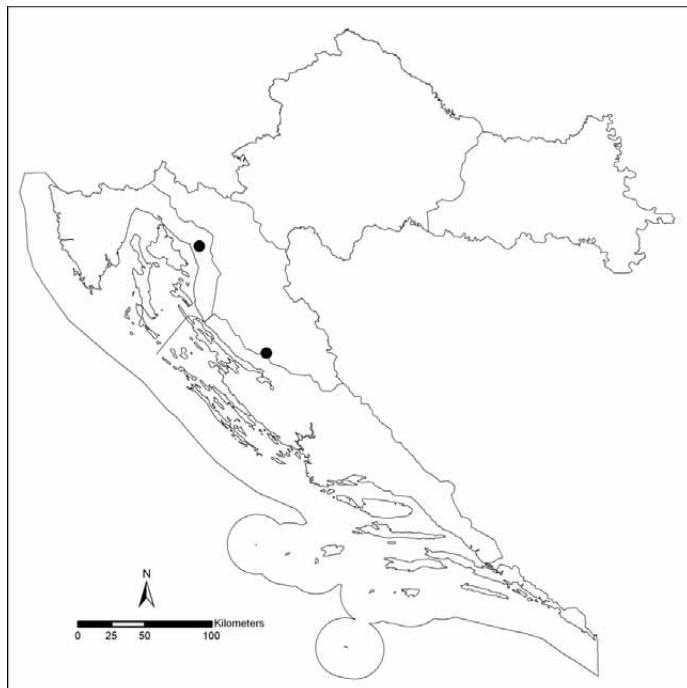


Fig. 6. Distribution of *Androniscus wolfi*.

10. *Aegonethes antilocapra* Frankenberger, 1938 (Tab. 10, Fig. 7)

- Distribution: Croatia: the islands of Korčula and Vis (SCHMALFUSS, 2003)
- Type locality: Tabaina špilja (cave), Vela Luka, the island of Korčula; Špilja pod Humom (cave), Komiža, the island of Vis; Caretova špilja (cave), Vis, the island of Vis and Špilja na Bardarovici (cave), Bardarovica, Korita, Vis, the island of Vis, Dalmatia, Croatia [Tabaina spilja, environs de la ville de Vela Luka, île de Korčula. – Spilja pod Humom, environs de la ville de Komiže, île de Vis (Lissa). – Ceretova spilja kod Visa, environs de la ville de Vis, île de Vis. – Bardarovica, environs du village Korita, île de Vis. (FRANKENBERGER, 1938a)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 10. List of recorded localities for *Aegonethes antilocapra*

| Locality | UTM | Region | Source |
|--|------|--------|---------------------|
| Špilja uz cestu kod Komiže (cave), Komiža, Vis | WH86 | SL | CBSS collection 122 |

| | | | |
|--|------|----|--|
| Caretova špilja (cave), Vis, Vis | WH96 | SL | FRANKENBERGER, 1938a KARAMAN, 1966 |
| Kraljicina špilja (cave), Oključna, Komiža, Vis | WH96 | SL | CBSS collection 123 |
| Rupa na Ribinovoj bandi (cave), Ribinova banda, Kostirna, Vis, Vis | WH96 | SL | CBSS collection 124 |
| Špilja na Bardarovici (cave), Bardarovica, Korita, Vis, Vis | WH96 | SL | GIOMETTA, 1914 ¹ FRANKENBERGER, 1938a KARAMAN, 1966 |
| Špilja od Vore (cave), Kostirna, Vis, Vis | WH96 | SL | CNHM collection 4 |
| Špilja pod Humom (cave), Komiža, Vis | WH96 | SL | FRANKENBERGER, 1938a KARAMAN, 1966 |
| Tanki rot (cave), Podhumlje, Komiža, Vis | WH96 | SL | CBSS collection 125 |
| Veliki rudnik (mine, cave), Kostirna, Vis, Vis | WH96 | SL | CBSS collection 126 |
| Tabaina špilja (cave), Vela Luka, Korčula | XH45 | SL | CBSS collection 127 FRANKENBERGER, 1938a FRANKENBERGER & STROUHAL, 1940 KARAMAN, 1966 BEDEK et al., 2006 OZIMEC, 2010 |
| Vis | | SL | FRANKENBERGER & STROUHAL, 1940 |

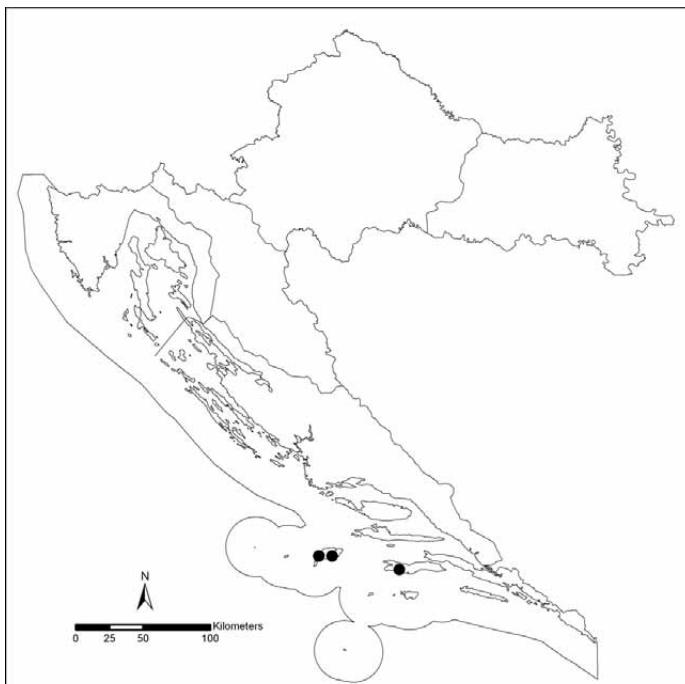


Fig. 7. Distribution of *Aegonethes antilocapra*.

| | | |
|---|----|--|
| Korčula and Vis | SL | STROUHAL, 1939a |
| | | SCHMÖLZER, 1965a |
| | | TABACARU, 1996 |
| | | GOTTSTEIN <i>et al.</i> , 2001 |
| | | GOTTSTEIN MATOČEC <i>et al.</i> , 2002 |
| | | SCHMALFUSS, 2003 |
| From the Neretva to the S Montenegro region | SL | STROUHAL, 1940a |
| Croatia | | POTOČNIK, 1989 |

¹ *Titanethes albus*

11. *Aegonethes cervinus* (Verhoeff, 1931) (Tab. 11, Fig. 8)

Synonyms: *Illyrionethes cervinus* Verhoeff, 1931

Distribution: Italy: Gargano, Croatia: Dubrovnik and the islands of Korčula and Mljet (SCHMALFUSS, 2003)

Type locality: Pišurka (cave), Korčula, the island of Korčula, Dalmatia, Croatia [Paganetti-Höhle auf der dalmatinischen Insel Curzola (VERHOEFF, 1931a, b)]

Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 11. List of recorded localities for *Aegonethes cervinus*

| Locality | UTM | Region | Source |
|--|------|--------|-----------------------------|
| Garden of Biological Institute Lapad (endogean?), Lapad, Dubrovnik | BN52 | SL | BUTUROVIĆ, 1955b |
| | | | KARAMAN, 1966 |
| Karle (cave), Gruž, Dubrovnik | BN62 | SL | STROUHAL, 1939a |
| | | | STROUHAL, 1939e |
| | | | ARCANGELI, 1947 |
| | | | KARAMAN, 1966 |
| Đurovića špilja (cave), Đurovići, Cavtat, Konavle | | | CBSS collection 128 |
| | BN71 | SL | STROUHAL, 1939a |
| | | | STROUHAL, 1939e |
| | | | ARCANGELI, 1947 |
| | | | KARAMAN, 1966 |
| Šipun (cave), Cavtat, Dubrovnik | | | STROUHAL, 1939a |
| | BN71 | SL | STROUHAL, 1939e |
| | | | ARCANGELI, 1947 |
| | | | KARAMAN, 1966 |
| Hrastovska špilja (cave), Hrastovsko polje, Lastovo, Lastovo | XH53 | SL | CBSS collection 129 |
| | | | OZIMEC <i>et al.</i> , 2008 |
| Jama pod Velji vrh (cave), Velji vrh, Lastovo, Lastovo | XH53 | SL | CBSS collection 130 |
| | | | OZIMEC <i>et al.</i> , 2008 |
| Medviđa ropa (cave), Skrivena Luka, Lastovo | XH53 | SL | CBSS collection 131 |
| | | | OZIMEC <i>et al.</i> , 2008 |
| Rača (cave), Radaš do, Skrivena Luka, Lastovo | XH53 | SL | CBSS collection 132 |
| | | | OZIMEC <i>et al.</i> , 2008 |
| Špilja na Pozalici (cave), Pržina, Skrivena Luka, Lastovo | XH53 | SL | CBSS collection 133 |
| | | | OZIMEC <i>et al.</i> , 2008 |
| Špilja pod Kaštel (cave), Kaštel, Lastovo, Lastovo | XH53 | SL | CBSS collection 134 |
| | | | OZIMEC <i>et al.</i> , 2008 |

| | | | |
|---|------|----|--|
| Jama na Odvoru (cave), Strmena strana, Račišće, Korčula | XH66 | SL | CBSS collection 135 |
| Samograd (cave), Račišće, Korčula | XH66 | SL | CBSS collection 136 |
| Jakasova špilja (cave), Glava, Rasohatica, Žrnovo, Korčula | XH75 | SL | CBSS collection 137 |
| Jama pod Kolač (cave), Vučja, Postrane, Žrnovo, Korčula | XH75 | SL | CBSS collection 138 |
| Pišurka (cave), Korčula, Korčula | XH75 | SL | CBSS collection 139 VERHOEFF, 1931a VERHOEFF, 1931b FRANKENBERGER, 1938a STROUHAL, 1938 STROUHAL, 1939a FRANKENBERGER & STROUHAL, 1940 ARCANGELI, 1947 KARAMAN, 1966 ARGANO et al., 1982 SCHMIDT & LEISTIKOW, 2004 BEDEK et al., 2006 OZIMEC, 2010 |
| Jama na Brekalcima (cave), Polače, Mljet | XH93 | SL | CNHM collection 5 CBSS collection 140 |
| Jama u Velikom Desajdubu (cave), Veliki Desajdub, Polača, Mljet | XH93 | SL | CNHM collection 6 CBSS collection 141 |
| Male ponte (cave), Grabova glava, Ropa, Mljet | XH93 | SL | CBSS collection 142 |
| Špilja kod Nerezinog dola (cave), Nerezin do, Ropa, Mljet | XH93 | SL | CBSS collection 143 FRANKENBERGER, 1938a STROUHAL, 1939a ARCANGELI, 1947 KARAMAN, 1966 |
| Špilja kod Solina (cave), Soline, Mljet | XH93 | SL | CBSS collection 144 |
| Jama za Svetim Spasom (cave), Babino Polje, Mljet | YH03 | SL | CBSS collection 145 |
| Mala špilja (cave), Blata, Mljet | YH03 | SL | CBSS collection 146 |
| Movrica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | CBSS collection 147 STROUHAL, 1939a STROUHAL, 1939c STROUHAL, 1939e ARCANGELI, 1947 |
| Ostaševica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | CBSS collection 148 FRANKENBERGER, 1938a STROUHAL, 1939a STROUHAL, 1939e ARCANGELI, 1947 KARAMAN, 1966 |
| Velika špilja (cave), Blata, Mljet | YH03 | SL | CBSS collection 149 FRANKENBERGER, 1938a STROUHAL, 1939a ARCANGELI, 1947 KARAMAN, 1966 |
| Galičnjak (cave), Okuklje, Mljet | YH13 | SL | CBSS collection 150 |
| Jama za Svetim Ivanom (cave), Babino Polje, Mljet | YH13 | SL | CBSS collection 151 |
| Međugrađen (cave), Veliki grad, Babino Polje, Mljet | YH13 | SL | CBSS collection 152 |

| | | |
|--|----|--|
| Mljet, surroundings of Dubrovnik | SL | FRANKENBERGER & STROUHAL, 1940 |
| Korčula and Mljet | SL | SCHMÖLZER, 1965a TABACARU, 1996 GOTTSTEIN <i>et al.</i> , 2001* GOTTSTEIN MATOČEC <i>et al.</i> , 2002* |
| Korčula and Mljet, surroundings of Dubrovnik | SL | SCHMALFUSS, 2003 |
| Mljet | SL | OZIMEC & BEDEK, 2005 |
| From The Neretva to the S Montenegro region | SL | STROUHAL, 1940a |
| Croatia | | POTOČNIK, 1989 |

* Vis is also given, but there are no literature data for the island of Vis, so this must be a mistake.

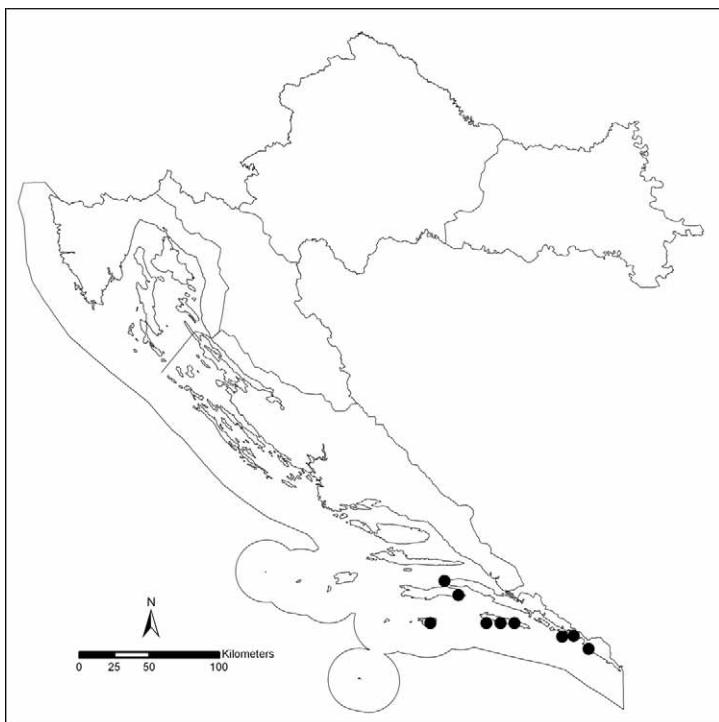


Fig. 8. Croatian distribution of *Aegonethes cervinus*.

12. *Alpioniscus balthasari* (Frankenberger, 1937) (Tab. 12, Fig. 9)

- Synonyms: *Illyrionethes balthasari* Frankenberger, 1937
- Distribution: Southern Croatia, Bosnia, Herzegovina (SCHMALFUSS, 2003)
- Type locality: Kotluša (cave), Kotluša, Civljane, Vrlika, Dalmatia, Croatia [eine Höhle in der Umgebung der Stadt Knin; es ist dies jene Höhle, die in der Nähe des Dorfes Kotluša am westlichen Fusse des Dinara-Gebirges; »Höhle mit Wasser« (FRANKENBERGER, 1937)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 12. List of recorded localities for *Alpioniscus balthasari*

| Locality | UTM | Region | Source |
|---|------|--------|---|
| Čude (cave), Zrmanja, Obrovac | WJ59 | SL | CBSS collection 153 |
| Rastovača (cave), Zaton, Rastovac, Obrovac | WJ59 | SL | CBSS collection 154 |
| Miljacka I (cave), Krka, Oklaj, Knin | WJ67 | SL | CBSS collection 155 BEDEK, 2007a |
| Miljacka II (cave), Krka, Oklaj, Knin | WJ67 | SL | CBSS collection 156 BEDEK, 2007a |
| Špilja kod Mlina na Miljacki (cave), Krka, Oklaj, Knin | WJ67 | SL | CBSS collection 157 |
| Golubnjača (cave), Bukovica, Kaštel Žegarski, Obrovac | WJ68 | SL | CBSS collection 158 BEDEK, 2007a |
| Velika pećina (cave), Gornji Čabrići, Crnopac, Velebit, Gračac | WJ69 | SL | CBSS collection 159 |
| Martina jama (cave), Krka, Skradin | WJ75 | SL | CBSS collection 160 BEDEK, 2007a |
| Drenovača (cave), Lalića stanovi, Lalići, Krka, Kistanje | WJ76 | SL | CBSS collection 161 BEDEK, 2007a |
| Tavnica (cave), Lalića ograde, Lalići, Krka, Kistanje | WJ76 | SL | CBSS collection 162 BEDEK, 2007a |
| Trišića jama (cave), Lalića ograde, Lalići, Krka, Kistanje | WJ76 | SL | CBSS collection 163 BEDEK, 2007a |
| Prčina (cave), Kistanje | WJ77 | SL | CBSS collection 164 BEDEK, 2007a |
| Kusa nad Manastirskim lukama (cave), Krupa, Obrovac | WJ79 | SL | CBSS collection 165 |
| Stražbenica (cave), Vrpolje, Šibenik | WJ83 | SL | CBSS collection 166 BEDEK, 2007a |
| Zvečara (cave), Perković, Sitno Donje, Šibenik | WJ83 | SL | GIROMETTA, 1913 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Stara jametina (cave), Punčka draga, G. Krnići, Konjevrate, Šibenik | WJ84 | SL | CBSS collection 167 |
| Škarin Samograd (cave), Škarici, Konjevrate, Šibenik | WJ84 | SL | MZUF collection 1 CBSS collection 168 BEDEK, 2007a |
| Topla peć (cave), Ključ, Čikola, Skradin | WJ85 | SL | CBSS collection 169 |
| Jama na polju (cave), Vrsine, Trogir | WJ92 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Koliština (cave), Prgomet, Trogir | WJ92 | SL | GIROMETTA, 1913 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Golubinjka jama (cave), Koprmo, Šibenik | WJ94 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Smokvica (cave), Koprno, Šibenik | WJ94 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 BEDEK, 2007a |

| | | | |
|---|------|----|--|
| Kad jaganjci utihnu (cave), Lug Paripov, Ljubotić, Tribalj Kruščica | WK21 | SL | CBSS collection 170 |
| Ivina jama (cave), Velika Paklenica, Velebit, Starigrad | WK30 | SL | CNHM collection 7 |
| | | | CBSS collection 171 |
| Manita peć (cave), Velika Paklenica, Velebit, Starigrad | WK30 | SL | MZUF collection 2 BOŽIČEVIĆ, 1965 ² |
| Pisanica (cave), Jurline, Paklenica, Velebit, Starigrad | WK30 | SL | CBSS collection 172 |
| Bušljeta (cave), Pisak, Bojinac, Velebit, Starigrad | WK31 | SL | CBSS collection 173 |
| Jama kod Jatare 2 (cave), Jatara, Velebit, Starigrad | WK31 | SL | CBSS collection 174 |
| Jatara (cave), Jatara, Velebit, Starigrad | WK31 | SL | CBSS collection 175 |
| Vaganka (cave), Veliki Vaganac, Velebit, Starigrad | WK31 | SL | CBSS collection 176 |
| Gornja Cerovačka špilja (cave), Cerovac, Crnopac, Velebit, Gračac | WK70 | M | CNHM collection 8 CBSS collection 177 BEDEK <i>et al.</i> , 2008 |
| Benova jama (cave), Zavodi, Ravna vlaška, Biokovo, Tučepi | XH69 | SL | CBSS collection 178 |
| Bubnjavača (cave), Veprinac, Biokovo, Makarska | XH69 | SL | CBSS collection 179 |
| Jama na putu za Staru školu (cave), Sv. Jure, Biokovo, Makarska | XH69 | SL | CNHM collection 9 |
| Krjava 1 (cave), Veliko Brdo, Biokovo, Makarska | XH69 | SL | CBSS collection 180 |
| Krjava 2 (cave), Veliko Brdo, Biokovo, Makarska | XH69 | SL | CBSS collection 181 |
| Kuna (cave), Čedor, Biokovo, Makarska | XH69 | SL | CBSS collection 182 |
| Ledenica kod Stare škole (cave), Sv. Jure, Biokovo, Makarska | XH69 | SL | CNHM collection 10 |
| Podrum (cave), Gornja Podgora, Biokovo, Podgora | XH69 | SL | CBSS collection 183 |
| Bošak (cave), Lozovci, Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 184 |
| Gradska spila (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CNHM collection 11 CBSS collection 185 |
| Jama iznad Saranača (cave), Saranač, Gornje Igrane, Podgora | XH79 | SL | CBSS collection 186 |
| Jama kod Tučepske vilenjače (cave), Ravna vlaška, Biokovo, Tučepi | XH79 | SL | CBSS collection 187 |
| Jama na Docima (cave), Saranač, Gornje Igrane, Biokovo, Podgora | XH79 | SL | CBSS collection 188 |
| Jama na grebenu (cave), Prisika, Biokovo, Podgora | XH79 | SL | CBSS collection 189 |
| Jama za Supinom (cave), Vrata Biokova, Biokovo, Podgora | XH79 | SL | CBSS collection 190 |
| Jujnovića špilja (cave), Jujnovići, Kozica, Biokovo, Podgora | XH79 | SL | CNHM collection 12 CBSS collection 191 |
| Mala jama (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 192 |
| Matijaševa špilja (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CNHM collection 13 CBSS collection 193 |
| | | | CNHM collection 14 |
| Spila 1 (cave), Jujnovići, Kozica, Biokovo, Podgora | XH79 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Spila 2 (cave), Jujnovići, Kozica, Biokovo, Podgora | XH79 | SL | CNHM collection 15 CBSS collection 194 |
| Stonjska peć donja (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 195 |
| Stonjska peć gornja (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 196 |
| Tučepska vilenjača (cave), Ravna vlaška, Biokovo, Tučepi | XH79 | SL | CBSS collection 197 |
| Pećina u Carevoj Poski (cave), Jurilji, Vrgorac | XH88 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Mala špilja (cave), Antunovići, Kozica, Biokovo, Podgora | XH89 | SL | CNHM collection 16 |
| Martina jama (cave), Stilja, Vrgorac | XH89 | SL | CBSS collection 198 |

| | | | |
|--|------|----|--|
| Bunarina (cave), Podanak, Uble, Lećevica, Split | XJ03 | SL | T. Rađa collection 1 GIROMETTA, 1913 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Jama na Kuku (cave), Radošić, Lećevica, Split | XJ03 | SL | GIROMETTA, 1913 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Jama pod Kragljevcem (cave), Ramljane, Moseć, Sinj | XJ04 | SL | GIROMETTA, 1914 ¹ STROUHAL, 1939a KARAMAN, 1966 |
| Kosilova jama (cave), Brezovac, Dinara, Knin | XJ08 | SL | CNHM collection 17 CBSS collection 199 |
| Petrinjka (cave), Vučevica, Kaštela Lukšić, Kozjak, Split | XJ12 | SL | GIROMETTA, 1913 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Jazinka (cave), Ljuta, Muć, Moseć, Sinj | XJ13 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 |
| Kotluša (cave), Kotluša, Civljane, Cetina, Vrlika | XJ16 | SL | CNHM collection 18 CBSS collection 200 FRANKENBERGER, 1937 FRANKENBERGER, 1939 STROUHAL, 1939a KARAMAN, 1966 BEDEK et al., 2006 JALŽIĆ et al., 2010 |
| Kranjica (cave), Crvene grede, Jare, Vrlika | XJ16 | SL | CBSS collection 201 |
| Medića pećina (cave), Civljane, Cetina, Vrlika | XJ16 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Rudelića špilja (cave), Civljane, Cetina, Vrlika | XJ16 | SL | CNHM collection 19 CBSS collection 202 STROUHAL, 1939a KARAMAN, 1966 |
| Gornja Tutićeva špilja (cave), Tutići, Civljane, Cetina, Vrlika | XJ17 | SL | CNHM collection 20 CBSS collection 203 |
| Gospodska špilja (cave), Četnik, Civljane, Cetina, Vrlika | XJ17 | SL | CNHM collection 21 CBSS collection 204 STROUHAL, 1939a KARAMAN, 1966 |
| Pećina iznad Kule (cave), Pekasova draga, Glavaš, Civljane, Cetina, Vrlika | XJ17 | SL | CBSS collection 205 |
| Pećina na izvoru Cetine (cave), Civljane, Cetina, Vrlika | XJ17 | SL | FRANKENBERGER, 1939 KARAMAN, 1966 |
| Velika Čulumova špilja (cave), Krivodol, Kijevo, Vrlika | XJ17 | SL | CNHM collection 22 CBSS collection 206 |
| Balićeva špilja (cave), Balići, Dugopolje, Mosor, Split | XJ22 | SL | GIROMETTA, 1913 ¹ GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 |

| | | | |
|--|------|----|---|
| Jama na Koštaku (cave), Koštak, Klis, Split | XJ22 | SL | GIROMETTA, 1913 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 |
| Kitlica jama (cave), Potravlje, Sinj | XJ25 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Trojama (cave), Srijane, Mosor, Split | XJ31 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 |
| Ledenica na podnožju Jabukovca (cave), Jabukovac, Mosor, Split | XJ32 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a KARAMAN, 1966 |
| Maklutača (cave), Dugopolje, Mosor, Split | XJ32 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Sniježnica pod Ljubljanom (cave), Ljubljan, Mosor, Split | XJ32 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939b |
| Vranjača (cave), Kotlenice, Dugopolje, Mosor, Split | XJ32 | SL | GIROMETTA, 1913 ¹ GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 |
| Jama kod Radošića (cave), Radošić, Sinj | XJ33 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Jama na Visokoj (cave), Visoka, Radošić, Sinj | XJ33 | SL | GIROMETTA, 1914 ¹ LANGHOFFER, 1915a ¹ STROUHAL, 1939a STROUHAL, 1939b STROUHAL, 1939e KARAMAN, 1966 |
| Crvenkuša-Tamnica-Suhi Rumin (cave system), Rumin, Bitelić, Sinj | XJ34 | SL | CBSS collection 207 STROUHAL, 1939a KARAMAN, 1966 |
| Govedija jama (cave), Malin, Bajagić, Sinj | XJ34 | SL | CBSS collection 208 |
| Kosinac (spring), Han, Obrovac Sinjski, Sinj | XJ34 | SL | CBSS collection 209 |
| Suvi Rumin (cave), Rumin, Bitelić, Sinj | XJ34 | SL | ERHARD, 1997 |
| Zimska pećina (cave), Obrovac Sinjski, Sinj | XJ34 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Bila lipotica (cave), Kodžomanove staje, Vrdovo, Dinara, Bitelić, Sinj | XJ35 | SL | CNHM collection 23 |
| Jama u Konjikuši gornjoj (cave), Malovani, Vrdovo, Dinara, Bitelić, Sinj | XJ35 | SL | CBSS collection 210 |
| Odžića ponor (sinkhole), Buljani, Gornji Bitelić, Sinj | XJ35 | SL | CBSS collection 211 |

| | | | |
|---|------|----|---|
| Pastirski stan (cave), Vukovići, Vrdovo, Dinara, Bitelić, Sinj | XJ35 | SL | CBSS collection 212 |
| Pidžin pit (cave), Bitelić, Sinj | XJ35 | SL | CBSS collection 213 |
| Pometena golubinka (cave), Lovrića staje, Vrdovo, Dinara, Bitelić, Sinj | XJ35 | SL | CBSS collection 214 |
| Vodena peća (cave), Kodžoman, Bajagić, Rumin, Sinj | XJ35 | SL | CNHM collection 24 CBSS collection 215 |
| Žabljia jama (cave), Vrdovo, Dinara, Bitelić, Sinj | XJ35 | SL | CBSS collection 216 |
| Špilja kod izvora Rude (cave), Ruda, Otok, Sinj | XJ43 | SL | CNHM collection 25 CBSS collection 217 |
| Ćulića jama (cave), Grljak, Bartulovići, Biokovo, Brela | XJ50 | SL | CBSS collection 218 |
| Drinova II (cave), Drinova, Gornja Brela, Biokovo, Brela | XJ50 | SL | CNHM collection 26 CBSS collection 219 |
| Gornja jama na Grljaku (cave), Grljak, Bartulovići, Biokovo, Brela | XJ50 | SL | CBSS collection 220 |
| Jama iznad Prozorčića (cave), Nevistine stine, Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 221 |
| Jama u Dovnju (cave), Dovanj, Rogoznica, Brela | XJ50 | SL | CBSS collection 222 MZUF collection 3 |
| Jamina (cave), Nevistine stine, Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 223 |
| Plošnica (cave), Nevistine stine, Gornja Brela, Biokovo, Brela | XJ50 | SL | CNHM collection 27 |
| Pozjata (cave), Jagodnik, Bartulovići, Biokovo, Brela | XJ50 | SL | CBSS collection 224 |
| Spasiteljica (cave), Drinova, Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 225 |
| Svetica (cave), Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 226 |
| Duboka trepetljika (cave), Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 227 |
| Gaćina jama (cave), Gačeše, Biokovo, Zagvozd | XJ60 | SL | CNHM collection 28 |
| Jama iznad Lipog dočića (cave), Sv. Jure, Biokovo, Makarska | XJ60 | SL | CBSS collection 228 |
| Jama na Brezdanu (cave), Brezdan, Topići, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 229 |
| Jama na Kačkoj glavici 3 (cave), Kačka glavica, Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 230 |
| Jama na Mrždolcu (cave), Mrždolac, Dedići, Sridnja gora, Zagvozd | XJ60 | SL | CBSS collection 231 |
| Jama pod Sv. Jurom (cave), Sv. Jure, Biokovo, Makarska | XJ60 | SL | CBSS collection 232 |
| Jama u Čikešima (cave), Čikeši, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 233 |
| Jama u trepetljikama (cave), Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 234 |
| Kukor (cave), Bast, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 235 |
| Mala jama u stijenama (cave), Spiljice, Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CNHM collection 29 |
| Mužina špilja (cave), Sridnja gora, Svaguša, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 236 |
| Pasji manastir (cave), Topići, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 237 |
| Pećina istočno od sela Svaguša (cave), Svaguša, Biokovo, Zagvozd | XJ60 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Pećina u Jurkovoj dolini (cave), Jurkova dolina, Biokovo, Zagvozd | XJ60 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Pećina u Sridnjoj gori (cave), Sridnja gora, Biokovo, Zagvozd | XJ60 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Potkameničina jama (cave), Dedići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 238 |
| Pružina (cave), Prodani, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 239 |
| Pukotina kod doca Stražbenica (cave), Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CNHM collection 30 |
| Raputinova špilja (cave), Rastovac, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 240 |
| Špilja do Obilježene (cave), Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 241 |

| | | | |
|---|------|----|---|
| Špilja na Mrždolcu (cave), Mrždolac, Dedići, Sridnja gora, Zagvozd | XJ60 | SL | CBSS collection 242 |
| Špilja u Bastu (cave), Bast, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 243 |
| Špilja u Gaju (cave), Brnasi, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 244 |
| Velika špilja (cave), Bukovci, Sridnja gora, Dedići, Zagvozd | XJ60 | SL | CBSS collection 245 |
| Vodena trepetljika (cave), Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 246 |
| Mravinjuša jama (cave), Lozovci, Župa, Biokovo, Zagvozd | XJ70 | SL | CBSS collection 247 |
| Baričevića pećina (cave), Cetina | XJ | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Damljinova jama (cave), Sinj | XJ | SL | STROUHAL, 1938 KARAMAN, 1966 |
| Golubinka (cave), Cetina | XJ | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Jama kod Dugopolja (cave), Dugopolje, Split | XJ | SL | STROUHAL, 1939a |
| Jama na Balači (cave), Mosor, Split | XJ | SL | STROUHAL, 1939a STROUHAL, 1939e KARAMAN, 1966 |
| Kozjak pećina (cave), Cetina | XJ | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Pećina kod Sinja (cave), Sinj | XJ | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Pećina na istočnoj padini Mosor planine (cave), Mosor, Split | XJ | SL | FRANKENBERGER, 1939 KARAMAN, 1966 FLASAROVÁ, 1967 |
| Pećina na sjeveroistočnim padinama Biokova (cave), Biokovo, Zagvozd | XJ | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Pećina na Svilaj planini (cave), Svilaja | XJ | SL | FRANKENBERGER, 1939 KARAMAN, 1966 |
| Pećina sjeveroistočno od Sinja (cave), Sinj | XJ | SL | FRANKENBERGER, 1939 KARAMAN, 1966 |
| Vučković jama (cave), Cetina | XJ | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Zakanova jama (cave), Sinj | XJ | SL | STROUHAL, 1938 KARAMAN, 1966 |
| Zrilina pećina (cave), Cetina | XJ | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Bobija jama (cave) | | | STROUHAL, 1939a |
| Crnomarkovića pećina (cave) | | | STROUHAL, 1939a KARAMAN, 1966 |
| Džamije (cave) | | | STROUHAL, 1939a STROUHAL, 1939e KARAMAN, 1966 |
| Pećina Stojaković (cave) | | | STROUHAL, 1939a KARAMAN, 1966 |
| Podbirnjača špilja (cave) | | | STROUHAL, 1939a KARAMAN, 1966 |
| Špilja na Dinari 254 (cave), Dinara | | SL | FRANKENBERGER, 1939 |
| Špilja na Dinari 256 (cave), Dinara | | SL | FRANKENBERGER, 1939 |
| Špilja na Dinari 258 (cave), Dinara | | SL | FRANKENBERGER, 1939 |
| Špilja na Dinari 260 (cave), Dinara | | SL | FRANKENBERGER, 1939 |

| | | |
|---|----|---|
| Vršine (cave) | | STROUHAL, 1939a STROUHAL, 1939e KARAMAN, 1966 |
| Biokovo | SL | OZIMEC, 2008 BEDEK, 2011 |
| Dinara, W slopes, Vrlika | SL | FRANKENBERGER & STROUHAL, 1940 KARAMAN, 1966 |
| Cetina spring, surroundings, Civljane, Vrlika | SL | FRANKENBERGER & STROUHAL, 1940 |
| Knin, surroundings | SL | STROUHAL, 1938 |
| Krka, surroundings | SL | BEDEK, 2005a, JALŽIĆ et al., 2007 |
| Mosor | SL | FRANKENBERGER & STROUHAL, 1940 |
| Sinj, surroundings | SL | FRANKENBERGER, 1939 |
| Svilaja | SL | FRANKENBERGER & STROUHAL, 1940 |
| Central Dalmatia | SL | SCHMÖLZER, 1965a |
| Dalmatia | SL | VANDEL, 1946 |
| From Southern Velebit to Biokovo | | JALŽIĆ et al., 2007 |
| From the Cetina to the Neretva region | SL | STROUHAL, 1940a |
| Southern Croatia | | SCHMALFUSS, 2003 |
| Croatia | | POTOČNIK, 1989 TABACARU, 1996 |

¹ *Titanethes albus*

² *Titanethes (albus?) dahli*

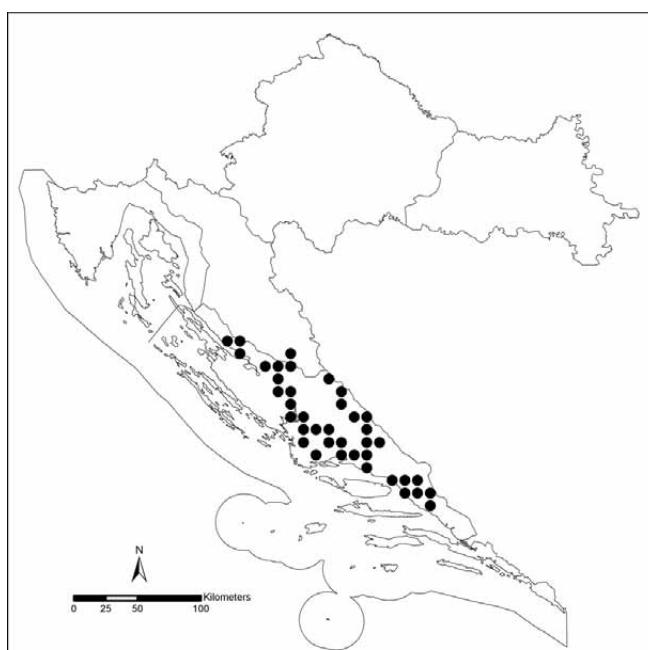


Fig. 9. Croatian distribution of *Alpioniscus balthasari*.

13. *Alpioniscus bosniensis* (Frankenberger, 1939) (Tab. 13, Fig. 10)

- Synonyms: *Illyrionethes bosniensis* Frankenberger, 1939
- Distribution: Southern Croatia, Bosnia and Herzegovina (SCHMALFUSS, 2003)
- Type locality: Pećina u Donjem Brišniku (cave), Donji Brišnik, Tomislavgrad, Bosnia and Herzegovina [Höhle 12 km weit nach O. von Tomislavgrad (Sw.-Bosnien) bei der Schule von D. Brišnik; BB Nr. 272 (FRANKENBERGER, 1939)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 13. List of recorded localities for *Alpioniscus bosniensis*

| Locality | UTM | Region | Source |
|---|------|--------|--|
| Baba špilja (cave), Šošići, Gornje Igrane, Biokovo, Podgora | XH79 | SL | CNHM collection 31 |
| | | | CBSS collection 248 |
| | | | BUTUROVIĆ, 1955c |
| | | | KARAMAN, 1966 |
| Jama pod Osojem (cave), Vrata Biokova, Biokovo, Podgora | XH79 | SL | CBSS collection 249 |
| Jama za Supinom (cave), Vrata Biokova, Biokovo, Podgora | XH79 | SL | CBSS collection 250 |
| Tučepska vilenjača (cave), Ravnna vlaška, Biokovo, Tučepi | XH79 | SL | CBSS collection 251 |
| Zečica (cave), Zečica, Šošići, Biokovo, Podgora | XH79 | SL | CBSS collection 252 OZIMEC <i>et al.</i> , 2009 |
| Velika špilja (cave), Antunovići, Biokovo, Kozica | XH89 | SL | CBSS collection 253 |
| | | | MZUF collection 4 |
| | | | BUTUROVIĆ, 1955c |
| | | | KARAMAN, 1966 |
| Pozjata (cave), Jagodnik, Bartulovići, Biokovo, Brela | XJ50 | SL | BUTUROVIĆ, 1955c |

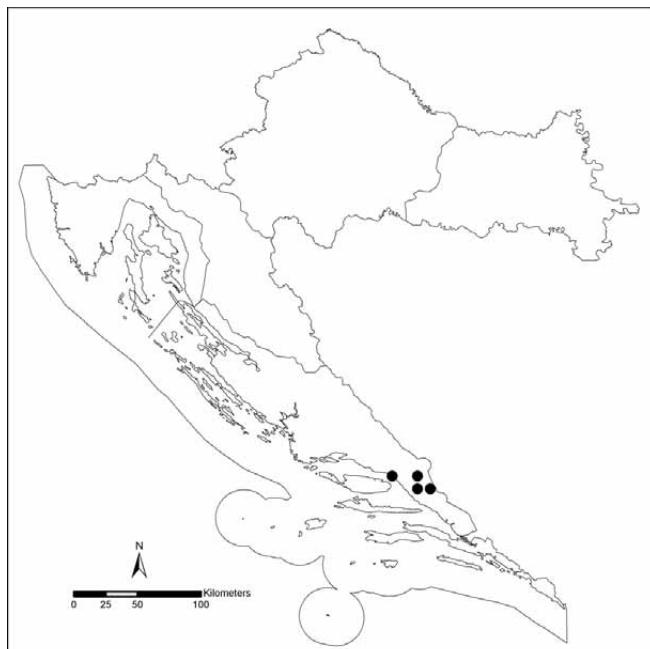


Fig. 10. Croatian distribution of *Alpioniscus bosniensis*.

| | | | |
|---|------|----|--|
| Mravinjuša jama (cave), Lozovci, Župa, Biokovo, Zagvozd | XJ70 | SL | CNHM collection 32 CBSS collection 254 MZUF collection 5 |
| Biokovo | | SL | OZIMEC, 2008 BEDEK, 2011 |
| Biokovo and Vrgorac surroundings | | SL | SKET, 1986 |
| From the Cetina to the Neretva region | | SL | STROUHAL, 1940a |
| Southern Croatia | | SL | SCHMALFUSS, 2003 |
| Croatia | | | POTOČNIK, 1989 |

14. *Alpioniscus christiani* Potočnik, 1983 (Tab. 14, Fig. 11)

Distribution: Croatia: the island of Krk (SCHMALFUSS, 2003)

Type locality: Biserujka (cave), Rudine, Čižići, Omišalj, the island of Krk, Kvarner, Croatia [Höhle »Viteziceva pećina« bei Rudine, Omišalj, Insel Krk (POTOČNIK, 1983)]

Ecological status: Troglobiotic

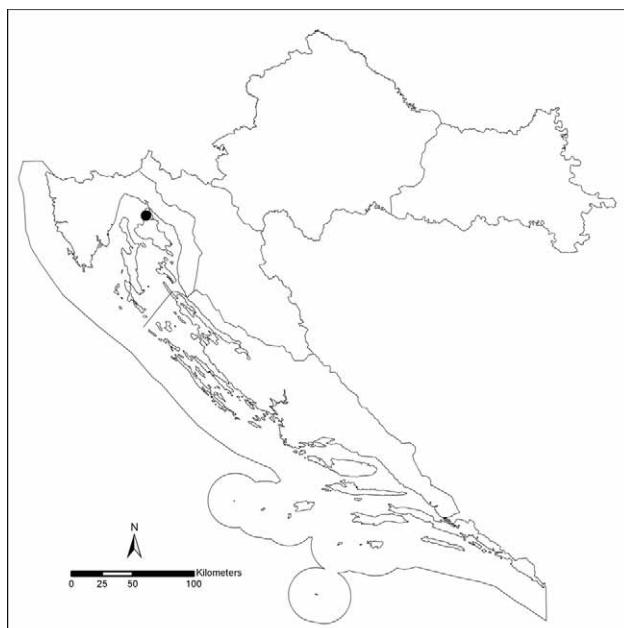


Fig. 11. Distribution of *Alpioniscus christiani*.

Tab. 14. List of recorded localities for *Alpioniscus christiani*

| Locality | UTM | Region | Source |
|--|------|--------|---|
| Biserujka (cave), Rudine, Čižići, Omišalj, Krk | VL60 | NL | CBSS collection 255 POTOČNIK, 1983 GOTTSTEIN et al., 2001 GOTTSTEIN MATOČEC et al., 2002 BEDEK et al., 2006 BOŽIĆ et al., 2010 |

| | | | |
|---------|--|----|--|
| Krk | | NL | TABACARU, 1996 SCHMALFUSS, 2003 |
| Croatia | | | POTOČNIK, 1989 TVRTKOVIĆ <i>et al.</i> , 2004 |

15. *Alpioniscus haasi* (Verhoeff, 1931) (Tab. 15, Fig. 12)

- Synonyms: *Illyrionethes haasi* Verhoeff, 1931
- Distribution: Croatia: the island of Korčula (SCHMALFUSS, 2003)
- Type locality: Pišurka (cave), Korčula, the island of Korčula, Dalmatia, Croatia [Paganetti -Höhle auf der dalmatinischen Insel Curzola (VERHOEFF, 1931a, b)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 15. List of recorded localities for *Alpioniscus haasi*

| Locality | UTM | Region | Source |
|--|------|--------|---|
| Jama na Kamenoj (cave), Kamena, Čara, Korčula | XH55 | SL | CBSS collection 256 |
| Jama na Mehovnju (cave), Veliki hom, Postrane, Žrnovo, Korčula | XH65 | SL | CBSS collection 257 |
| Jama u Dubokom dolu (cave), Duboki dol, Pupnat, Korčula | XH65 | SL | CBSS collection 258 |
| Špilja pod Veli vrh (cave), Veli vrh, Pupnat, Korčula | XH65 | SL | CBSS collection 259 |
| Samograd (cave), Račišće, Korčula | XH66 | SL | CBSS collection 260 OZIMEC, 2004 |
| Jakasova špilja (cave), Glava, Rasohatica, Žrnovo, Korčula | XH75 | SL | CBSS collection 261 FRANKENBERGER, 1938a KARAMAN, 1966 |
| Jama pod Bilušinim vrtom (cave), Postrane, Žrnovo, Korčula | XH75 | SL | CBSS collection 262 |
| Jama pod Kolač (cave), Vučja, Postrane, Žrnovo, Korčula | XH75 | SL | CBSS collection 263 |
| Jama u Mikulin dolac (cave), Mikulina glava, Postrane, Žrnovo, Korčula | XH75 | SL | CBSS collection 264 |
| Jama u Vrisju (cave), Žrnovo, Korčula | XH75 | SL | CBSS collection 265 |
| Pišurka (cave), Korčula, Korčula | XH75 | SL | CNHM collection 33 CBSS collection 266 VERHOEFF, 1931a VERHOEFF, 1931b FRANKENBERGER, 1938a ARCANGELI, 1947 KARAMAN, 1966 OZIMEC, 2004 BEDEK <i>et al.</i> , 2006 OZIMEC, 2010 |
| Korčula | | SL | STROUHAL, 1939a FRANKENBERGER & STROUHAL, 1940 SCHMÖLZER, 1965a TABACARU, 1996 SCHMALFUSS, 2003 |
| Dalmatia | | | VANDEL, 1946 |
| From The Neretva to the S Montenegro region | | SL | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

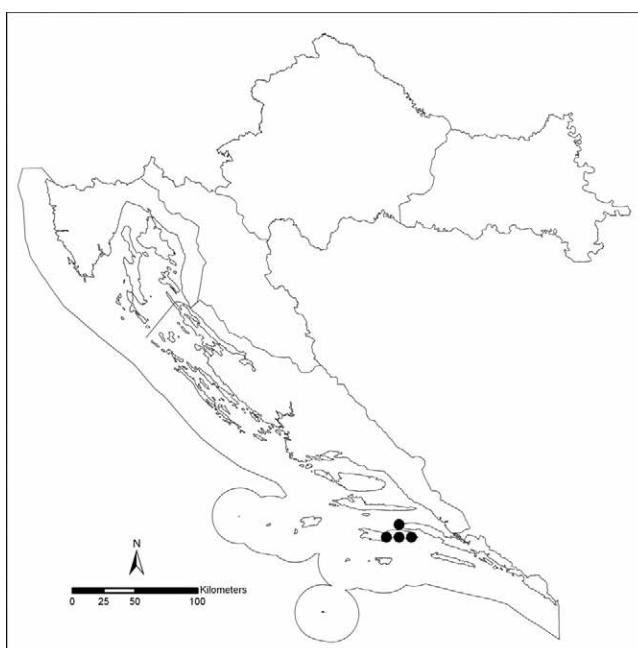


Fig. 12. Distribution of *Alpioniscus haasi*.

16. *Alpioniscus heroldi* (Verhoeff, 1931) (Tab. 16, Fig. 13)

- Synonyms: *Illyrionethes heroldi* Verhoeff, 1931
 Distribution: Southern Croatia, Bosnia and Herzegovina (SCHMALFUSS, 2003)
 Type locality: Bilek (cave), south Herzegovina, Bosnia and Herzegovina [Bilek-Höhle der Südherzegowina (VERHOEFF, 1931b)]
 Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 16. List of recorded localities for *Alpioniscus heroldi*

| Locality | UTM | Region | Source |
|---|------|--------|---------------------|
| Jama u Zabirađu (cave), Osojnik, Dubrovnik | BN53 | SL | CBSS collection 267 |
| Tunel u Peračkom blatu (tunnel, cave), Peračko blato, Ploče | XH97 | SL | CBSS collection 268 |
| Špilja na Zalokavlju (cave), Raba, Opuzen | YH06 | SL | CNHM collection 34 |
| Vištićina jama (cave), Dukati, Opuzen | YH06 | SL | CNHM collection 35 |
| Kornjatuša (cave), Dobranje, Opuzen | YH16 | SL | CNHM collection 36 |
| Pavličevica (cave), Dragovija – Vid, Metković | YH17 | SL | CNHM collection 37 |
| | | | CBSS collection 269 |
| Vilenska peć (cave), Ograđenica, Gumanca, Majkovi, Slano | YH34 | SL | CBSS collection 270 |
| Kukova peć (cave), Brsečine, Trsteno, Dubrovnik | YH43 | SL | CBSS collection 271 |
| Zadubravica (cave), Zadubravica, Riđica, Dubrovnik | YH44 | SL | CBSS collection 272 |
| Dubrovnik region | | SL | SKET, 1986 |
| | | | SKET, 2003 |

| | | | |
|--|--|----|------------------|
| Southern Croatia | | SL | SCHMALFUSS, 2003 |
| Croatia | | | POTOČNIK, 1989 |
| MISINTERPRETED LOCALITY | | | |
| Benetina pećina (cave), Gumanca Slano*, Bosnia and Herzegovina | | | STROUHAL, 1939a |

* The locality is probably Benetina pećina in Popovo polje, Herzegovina, near Slano.

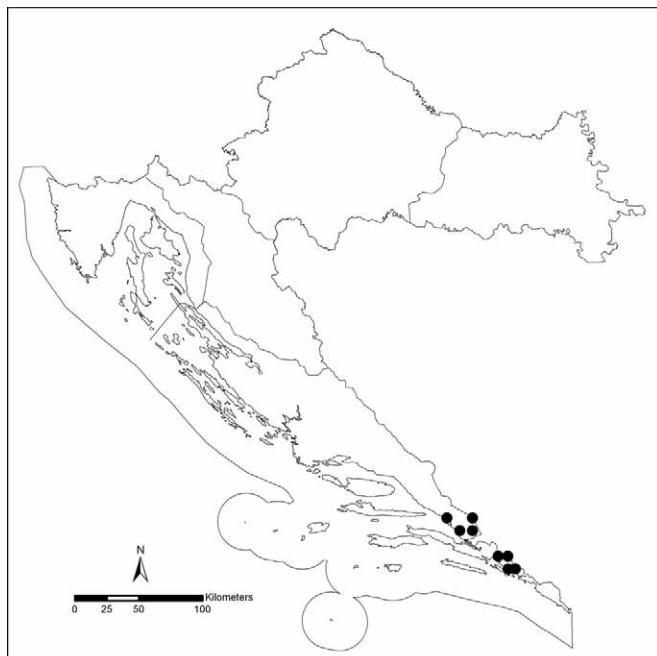


Fig. 13. Croatian distribution of *Alpioniscus heroldi*.

Alpioniscus herzegowinensis (Verhoeff, 1931) (Tab. 17)

- Synonyms: *Illyrionethes herzegowinensis* Verhoeff, 1931
 Distribution: Bosnia and Herzegovina (SCHMALFUSS, 2003)
 Type locality: Pećine u Šumi (caves), Šuma, Trebinje, Bosnia and Herzegovina [Gebiet der Schuma der südwestlichsten Herzegowina in verschiedenen Höhlen im Dunkeln (VERHOEFF, 1931b)]
 Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 17. List of recorded localities for *Alpioniscus herzegowinensis*

| Locality | UTM | Region | Source |
|--|------|--------|---|
| Lukina jama – Trojama (cave system), Hajdučki kukovi, Velebit, Krasno* | VK95 | NL | KEROVEC <i>et al.</i> , 1999 ¹ |

*Most probably a misidentification. All examined material from the cave system Lukina jama – Trojama and other caves on Northern Velebit Mt. belongs to other species, not yet described, related to *A. strasseri*.

¹*Alpioniscus hercegovinensis*

17. *Alpioniscus kratochvili* (Frankenberger, 1938) (Tab. 18, Fig. 14)

- Synonyms: *Illyrionethes kratochvili* Frankenberger, 1938
- Distribution: Croatia: the island of Hvar (SCHMALFUSS, 2003)
- Type locality: Markova špilja (cave), Pelegrin, Hvar; Grčka pećina (cave), Hvar and Grapčeva špilja (cave), Gramin Dolac, Humac, Jelsa, the island of Hvar, Dalmatia, Croatia [Markova spilja, près de Pellegrino, environs de la ville de Hvar. – Grčka pećina, environs de la ville de Hvar. – Grabćina pećina, environs de la ville de Hvar. (FRANKENBERGER, 1938a)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

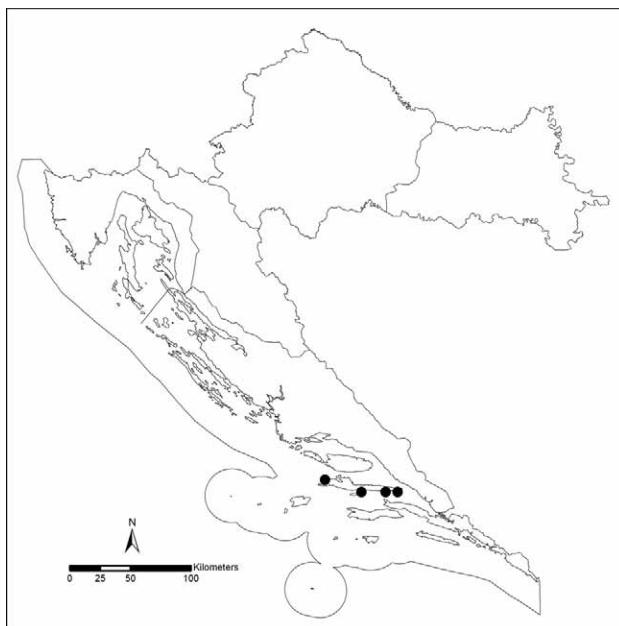


Fig. 14. Distribution of *Alpioniscus kratochvili*.

Tab. 18. List of recorded localities for *Alpioniscus kratochvili*

| Locality | UTM | Region | Source |
|--|------|--------|--------------------------------|
| Grčka pećina (cave), Hvar, Hvar | XH18 | SL | FRANKENBERGER, 1938a |
| | | | KARAMAN, 1966 |
| Markova špilja (cave), Pelegrin, Hvar, Hvar | XH18 | SL | CBSS collection 273 |
| | | | FRANKENBERGER, 1938a |
| | | | KARAMAN, 1966 |
| | | | BEDEK et al., 2006 |
| Špilja pod Kapelu (cave), Smokovnik, Hvar, Hvar | XH18 | SL | UBIC & OZIMEC, 2005 |
| Grapčeva špilja (cave), Gromin Dolac, Humac, Jelsa, Hvar | XH47 | SL | FRANKENBERGER, 1938a |
| Jama na Teruncu (cave), Bogomolje, Hvar | XH67 | SL | CNHM collection 38 |
| Propod (cave), Sućuraj, Hvar | XH77 | SL | GIROMETTA, 1914 ¹ |
| | | | LANGHOFFER, 1915a ¹ |
| | | | STROUHAL, 1939b |

| | | |
|---------------------------------------|----|---|
| Hvar | SL | STROUHAL, 1939a FRANKENBERGER & STROUHAL, 1940 SCHMÖLZER, 1965a TABACARU, 1996 SCHMALFUSS, 2003 |
| Dalmatia | SL | VANDEL, 1946 |
| From the Cetina to the Neretva region | SL | STROUHAL, 1940a |
| Croatia | | POTOČNIK, 1989 |

¹ *Titanethes albus*

18. *Alpioniscus magnus* (Frankenberger, 1938) (Tab. 19, Fig. 15)

Synonyms: *Illyrionethes magnus* Frankenberger, 1938
 Distribution: Croatia (SCHMALFUSS, 2003)
 Type locality: Bazgovača jama (cave), Nerežića; Kopačina (cave), Donji Hum, Supetar; Tanki ratac (cave), Supetar; Činjadra (cave), Nerežića; Filipovićeva jama (cave), Nerežića; Jama za Mahrincem (cave), Pučića and Špilja pod Vrhom (cave), Pučića, the island of Brać, Dalmatia, Croatia [Razgovača spilja, environs du village Nezeriće. – Kopacina près du village de Dolni Humac, environs de la ville de Supetar. – Tanki ratac, près de la ville de Supetar. Činjadra spilja, environs du village de Nezeriće. – Filipovićeva jama, environs de Nezeriće. – Jama za Mahrinacom, environs du village de Pučiće. – Spilja pod Vrhom, environs de Pučiće. (FRANKENBERGER, 1938a)]

Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

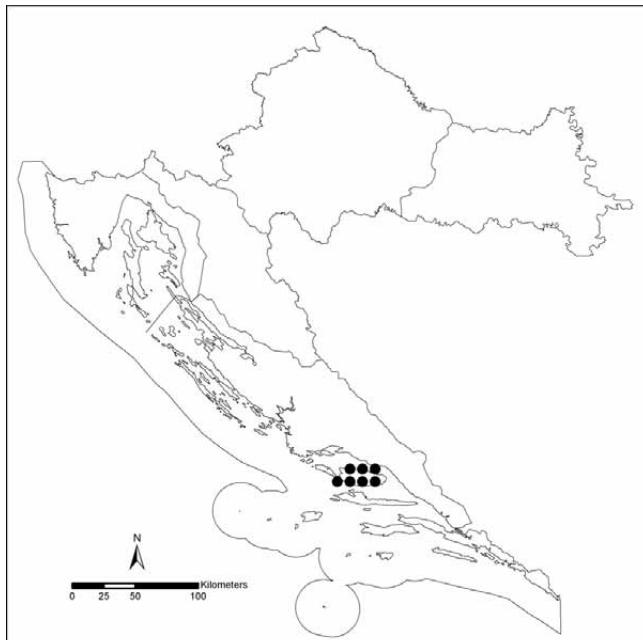


Fig. 15. Distribution of *Alpioniscus magnus*.

Tab. 19. List of recorded localities for *Alpioniscus magnus*

| Locality | UTM | Region | Source |
|---|------|--------|---|
| Špilja između Lokvica i Blisine glavice (cave), Milna, Brač | XH19 | SL | WETTSTEIN, 1914 ¹ STROUHAL, 1939b |
| Špilja između Milne i Sv. Josipa, Milna (cave), Brač | XH19 | SL | WETTSTEIN, 1914 ¹ STROUHAL, 1939b |
| Dobra jama (cave), Nerežića, Brač | XH29 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Filipovićeva jama (cave), Nerežića, Brač | XH29 | SL | FRANKENBERGER, 1938a STROUHAL, 1939a KARAMAN, 1966 |
| Bazgovača jama (cave), Nerežića, Brač | XH39 | SL | CNHM collection 39 CBSS collection 274 FRANKENBERGER, 1938a STROUHAL, 1939a KARAMAN, 1966 BEDEK et al., 2006 |
| Jama kod Vidove gore (cave), Vidova gora, Bol, Brač | XH39 | SL | WETTSTEIN, 1914 ¹ STROUHAL, 1939b |
| Ješkalovica (cave), Selca, Brač | XH49 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Studentski ratac (cave), Selca, Brač | XH49 | SL | STROUHAL, 1939a STROUHAL, 1939e KARAMAN, 1966 |
| Žejava (cave), Osridke, Selca, Brač | XH49 | SL | STROUHAL, 1939a KARAMAN, 1966 |
| Kopačina (cave), Donji Hum, Supetar, Brač | XJ20 | SL | FRANKENBERGER, 1938a STROUHAL, 1939a KARAMAN, 1966 |
| Tanki ratac (cave), Supetar, Brač | XJ20 | SL | FRANKENBERGER, 1938a STROUHAL, 1939a KARAMAN, 1966 |
| Činjadra (cave), Nerežića, Brač | XJ30 | SL | CBSS collection 275 WETTSTEIN, 1914 ¹ FRANKENBERGER, 1938a STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 HLAVÁČ & JALŽIĆ, 2009 |
| Minjera (mine, cave), Škrip, Postira, Brač | XJ30 | SL | CBSS collection 276 |
| Jama za Mahrincem (cave), Pučišća, Brač | XJ40 | SL | CBSS collection 277 FRANKENBERGER, 1938a STROUHAL, 1939a KARAMAN, 1966 |
| Špilja pod Vrhom (cave), Pučišća, Brač | XJ40 | SL | FRANKENBERGER, 1938a STROUHAL, 1939a VANDEL, 1946 KARAMAN, 1966 |

| | | | |
|------------------------------------|--|----|--|
| Brač | | SL | FRANKENBERGER & STROUHAL, 1940 SCHMÖLZER, 1965a TABACARU, 1996 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 SCHMALFUSS, 2003 |

¹ *Titanethes albus*

19. *Alpioniscus strasseri* (Verhoeff, 1927) (Tab. 20, Fig. 16)

- Synonyms: *Illyrionethes strasseri* Verhoeff, 1927; *I. enriquesi* Arcangeli, 1932
- Distribution: NE-Italy, Slovenia, Croatia including the island of Cres (SCHMALFUSS, 2003)
- Type locality: Grotta ad ovest di Basovizza (cave, Friuli Venezia Giulia cadastre no. 68, historical cadastre no. 53/VG), Longera, Trieste, Italy and Belinca jama (cave, Slovenian cave cadastre no. 950), Štarje, Sežana, Slovenia [Höhle am Mt. Spaccato in Istrien, eine Stunde von Triest entfernt; Höhle Belinca bei Storje (VERHOEFF, 1927)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 20. List of recorded localities for *Alpioniscus strasseri*

| Locality | UTM | Region | Source |
|---|------|--------|---|
| Porto Madonna (cave), Savudrija | UL83 | NL | VERHOEFF, 1929b |
| | | | WOLF, 1938 |
| Markova jama (cave), Štancija Špin, Tar, Poreč | UL91 | NL | CBSS collection 278 |
| Marmo (cave), Brtonigla | UL92 | NL | VERHOEFF, 1929a |
| Manzin (cave), Vodnjan | VK07 | NL | STROUHAL, 1939a |
| St. Lucia (cave), Vodnjan | VK07 | NL | STROUHAL, 1939a |
| Jama kod Burići (cave), Burići, Kanfanar | VK09 | NL | CBSS collection 279 OZIMEC <i>et al.</i> , 2011b |
| Špilja na Gradini kod Premanture (cave), Premantura, Pula | VK16 | NL | ARCANGELI, 1932 BRIAN, 1938 WOLF, 1938 STROUHAL, 1939a FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Ikinica (cave), Muntić | VK17 | NL | CNHM collection 40 |
| Feštinsko kraljevstvo (cave), Feštini, Žminj | VK19 | NL | CBSS collection 280 |
| Čampari (cave), Petrićevi, Beli, Cres | VK49 | NL | VERHOEFF, 1938 KARAMAN, 1966 |
| Ovčarica (cave), Belej, Cres | VK55 | NL | CBSS collection 281 |
| Piskovica (cave), Jaklići, Gologorica, Cerovlje | VL21 | NL | CBSS collection 282 |
| Rabakova špilja (cave), Rabaki, Roč, Ročko polje, Buzet | VL22 | NL | CBSS collection 283 OZIMEC <i>et al.</i> , 2011b |
| Denizza (cave), Kršan, Plomin | VL30 | NL | BRIAN, 1938 STROUHAL, 1939a |

| | | | |
|---|------|----|--|
| Jama iznad Vranjske drage (cave), Pikulići, Boljun, Vela draga, Učka | VL31 | NL | CBSS collection 284 |
| Jama mrtvih golubova (cave), Mala Učka, Učka | VL31 | NL | CNHM collection 41 CBSS collection 285 |
| Jama na Balaguštini (cave), Dobroč, Poklon, Učka | VL31 | NL | CBSS collection 286 |
| Mala peć (cave), Molinarska draga, Učka | VL31 | NL | CBSS collection 287 |
| Petrčeva jama (cave), Petrc, Podmaj, Mala Učka, Učka | VL31 | NL | CBSS collection 288 |
| Pupićina pećina (cave), Vranja, Boljun, Vela draga, Učka | VL31 | NL | CBSS collection 289 |
| Rupa I (cave), Podmaj, Mala Učka, Učka | VL31 | NL | CBSS collection 290 |
| Rupa II (cave), Podmaj, Mala Učka, Učka | VL31 | NL | CBSS collection 291 |
| Topolska peć (cave), Topol, Poklon, Učka | VL31 | NL | CBSS collection 292 |
| Barinova jama (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 293 |
| Borušnjak 1 (cave), Bončića kuća, Borušnjak, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 294 |
| Borušnjak 3 (cave), Bončića kuća, Borušnjak, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 295 |
| Crekvica (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 296 |
| Jama na prevojici (cave), Popova voda, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 297 |
| Jama pod križ (cave), Podbrus, Semići, Čićarija, Lupoglav | VL32 | NL | CBSS collection 298 |
| Novogodišnja jama (cave), Bačvenik, Dolenja Vas, Lupoglav, Čićarija | VL32 | NL | CBSS collection 299 |
| Oštirova jama (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 300 |
| Pećina kod planinarske kuće Pavlovac (cave), Bončića kuća, Borušnjak, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 301 |
| Pećina na Crekvici 1 (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 302 |
| Pećina pod Brložnikom (cave), Brložnik, Veprinac, Čićarija, Opatija | VL32 | NL | CBSS collection 303 |
| Pećina pod Sokolićem (cave), Sokolić, Semići, Čićarija, Lupoglav | VL32 | NL | CBSS collection 304 |
| Pećina pod Stržen (cave), Stržen, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 305 |
| Pećina u Topolovcu (cave), Topolovac, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 306 |
| SD 2 (cave), Mahenac, Veprinac, Čićarija, Opatija | VL32 | NL | CBSS collection 307 |
| Vela peć (cave), Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 308 |
| Druška peć (cave), Mošćenička draga, Potoki, Lovran | VL41 | NL | CBSS collection 309 |
| Jama kod potoka Banine 3 (cave), Menderi, Veprinac, Učka | VL41 | NL | CBSS collection 310 |
| Proljetna jama (cave), Veliki Knezgrad, Lovranska Draga, Učka, Lovran | VL41 | NL | CBSS collection 311 |
| Rudnik u Medveji (mine), Medveja, Lovran | VL41 | NL | CNHM collection 42 CBSS collection 312 MZUF collection 6 |
| Jama na Mahencu 2 (cave), Mahenac, Veprinac, Opatija | VL42 | NL | CBSS collection 313 |
| Pećina kod Puži (cave), Puži, Opatija | VL42 | NL | FRANKENBERGER, 1939 FRANKENBERGER & STROUHAL, 1940 KARAMAN, 1966 |

| | | | |
|---|------|----|---|
| Pećina kod sela Puhari (cave), Puhari, Veprinac, Opatija | VL42 | NL | CBSS collection 314 |
| Špilja iznad ceste (cave), brodogradilište V. Lenac, Kostrena, Rijeka | VL51 | NL | CBSS collection 315 LUKIĆ <i>et al.</i> , 2011 ¹ |
| Bunetova jama (cave), Humčine, Rožmanići, Bakar | VL61 | NL | CBSS collection 316 LUKIĆ <i>et al.</i> , 2009 LUKIĆ <i>et al.</i> , 2011 |
| Karlova jama (cave), Sopalj, Kostrena, Rijeka | VL61 | NL | CBSS collection 317 LUKIĆ <i>et al.</i> , 2011 |
| Mali štumbur (cave), Perilo, Kostrena, Rijeka | VL61 | NL | CBSS collection 318 LUKIĆ <i>et al.</i> , 2011 |
| Špilja u uvali Predpeć (cave), uvala Predpeć, Paveki, Bakar | VL61 | NL | CNHM collection 43 CBSS collection 319 LUKIĆ <i>et al.</i> , 2009 LUKIĆ <i>et al.</i> , 2011 |
| Špilja u uvali Svežanj (cave), uvala Svežanj, Paveki, Bakar | VL61 | NL | CBSS collection 320 LUKIĆ <i>et al.</i> , 2009 LUKIĆ <i>et al.</i> , 2011 |
| Tončakova jama (cave), Humčine, Rožmanići, Bakar | VL61 | NL | CBSS collection 321 LUKIĆ <i>et al.</i> , 2011 |
| Urinjska špilja (cave), Urinj, Kostrena, Rijeka | VL61 | NL | CBSS collection 322 LUKIĆ <i>et al.</i> , 2011 |
| Vrtare male (cave), Dramalj, Crikvenica | VL70 | NL | CBSS collection 323 |
| Lokvarka (cave), Lokve, Delnice* | VL82 | M | STROUHAL, 1939a KARAMAN, 1966 CASALE <i>et al.</i> , 2004 |
| Špilja na Učki (cave), Učka | VL | NL | KESSELYÁK, 1931 |
| Cres | | NL | VERHOEFF, 1940 ARGANO <i>et al.</i> , 1982 |
| Istria | | NL | VERHOEFF, 1931c ARGANO <i>et al.</i> , 1982 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | SCHMÖLZER, 1965a PAOLETTI, 1978 POTOČNIK, 1989 TABACARU, 1996 SCHMALFUSS, 2003 |
| MISIDENTIFICATION | | | |
| Medvjeda špilja (cave), Rt. Lokvica, Sv. Jakov, Lošinj** | VK53 | NL | JALŽIĆ, 2007 |

*According to STROUHAL (1939a) only two female specimens were available for the identification of the species. All examined material from the area of Gorski kotar belongs to other species, not yet described, therefore STROUHAL's record might be a misidentification.

**Re-examination of this material shows that the specimens belong to another, not yet described species.

¹ *Alpioniscus* sp.

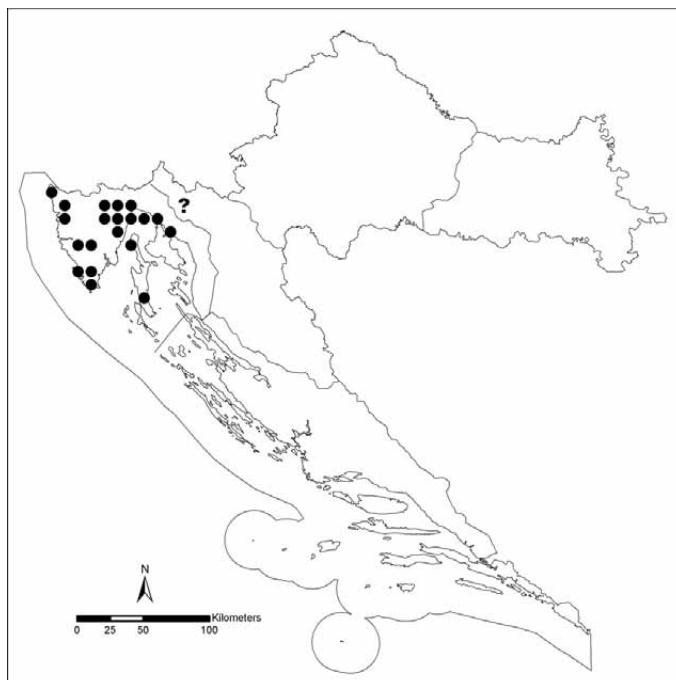


Fig. 16. Croatian distribution of *Alpioniscus strasseri*.

20. *Alpioniscus trogirensis* Buturović, 1955 (Tab. 21, Fig. 17)

- Distribution: Croatia: Dalmatia, Trogira (probably Trogir) (SCHMALFUSS, 2003)
- Type locality: Špilja Sv. Filipa i Jakoba (cave), Marina and Špilja od Bilosoja (cave), St Anthony's Monastery, Trogir, Dalmatia, Croatia [Grotte près de la ville Trogir (Dalmatie) (BUTUROVIĆ, 1955a)*]
- Ecological status: Troglobiotic (BUTUROVIĆ, 1957)

Tab. 21. List of recorded localities for *Alpioniscus trogirensis*

| Locality | UTM | Region | Source |
|---|------|--------|----------------------------------|
| Špilja Sv. Filipa i Jakoba (cave), Marina, Trogir | WJ82 | SL | BUTUROVIĆ, 1955a* |
| | | | KARAMAN, 1966 |
| | | | BEDEK et al., 2006 |
| Špilja od Bilosoja (cave), St Anthony's Monastery, Trogir | XJ01 | SL | CBSS collection 324 |
| | | | MZUF collection 7 |
| | | | BUTUROVIĆ, 1955a* |
| | | | KARAMAN, 1966 |
| Trogir surroundings | | SL | SCHMALFUSS, 2003 |
| Croatia | | | POTOČNIK, 1989 TABACARU, 1996 |

* According to HADŽI (1933) the material collected in 1924 by Stanko Karaman, labeled as »pećina u neposrednoj blizini Trogira« (Grotte près de la ville Trogir, Cave near Trogir) is from one of two caves: Špilja Sv. Filipa i Jakoba and Špilja od Bilosoja

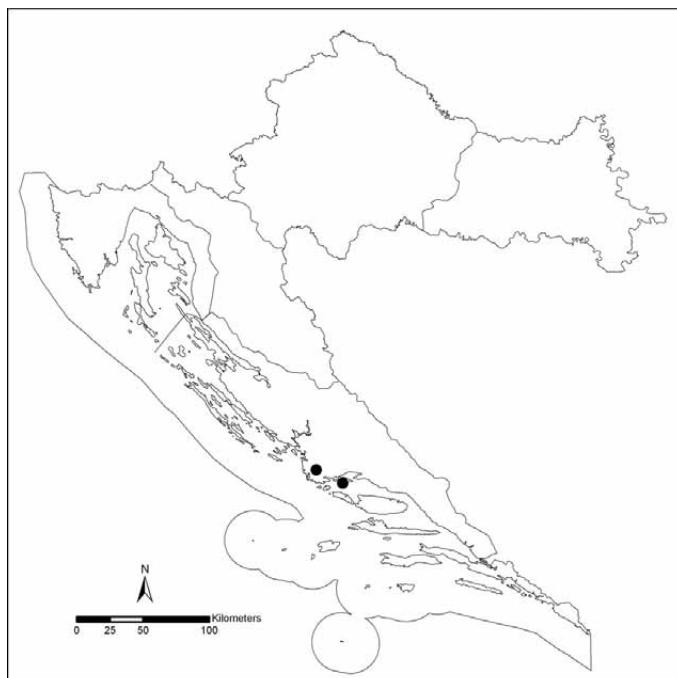


Fig. 17. Distribution of *Alpioniscus trogirensis*.

21. *Alpioniscus verhoeffi* (Strouhal, 1938) (Tab. 22, Fig. 18)

- Synonyms: *Illyrionethes verhoeffi* (Strouhal, 1938)
 Distribution: Croatia or Herzegovina (STROUHAL, 1938); Bosnia (SCHMALFUSS, 2003) is probably a misinterpreted datum.
 Type locality: Špilja u dolini Neretve (cave), Dalmatia, Croatia or Bosnia and Herzegovina, [Narenta Grotten, Dalmatién (STROUHAL, 1938)]
 Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 22. List of recorded localities for *Alpioniscus verhoeffi*

| Locality | UTM | Region | Source |
|---|------|--------|---|
| Špilja na Vršinoj glavici (cave), Stražbenica, Otok, Sinj | XJ44 | SL | CBSS collection 325 |
| Jamica u docima (cave), Varda, Desne, Metković | YH07 | SL | CBSS collection 326 |
| Kaverna pod vijaduktom kod Puljana (cave), Puljani, Jezero, Ploče | YH07 | SL | CBSS collection 327 |
| Maica golubinka (cave), Golovrh, Bebići, Metković | YH07 | SL | CBSS collection 328 |
| Požarova jama (cave), Desne, Opuzen | YH07 | SL | CBSS collection 329 |
| Špilja u dolini Neretve (cave), Neretva* | YH | SL | STROUHAL, 1938 FRANKENBERGER & STROUHAL, 1940 BUTUROVIĆ, 1955c KARAMAN, 1966 |

| | | | |
|---------------------------------------|--|----|-------------------------------------|
| Neretva region | | SL | STROUHAL, 1939a SCHMÖLZER, 1965a |
| Dalmatia | | SL | VANDEL, 1946 |
| From the Cetina to the Neretva region | | SL | STROUHAL, 1940a |

*It is possible that this locality is in Herzegovina

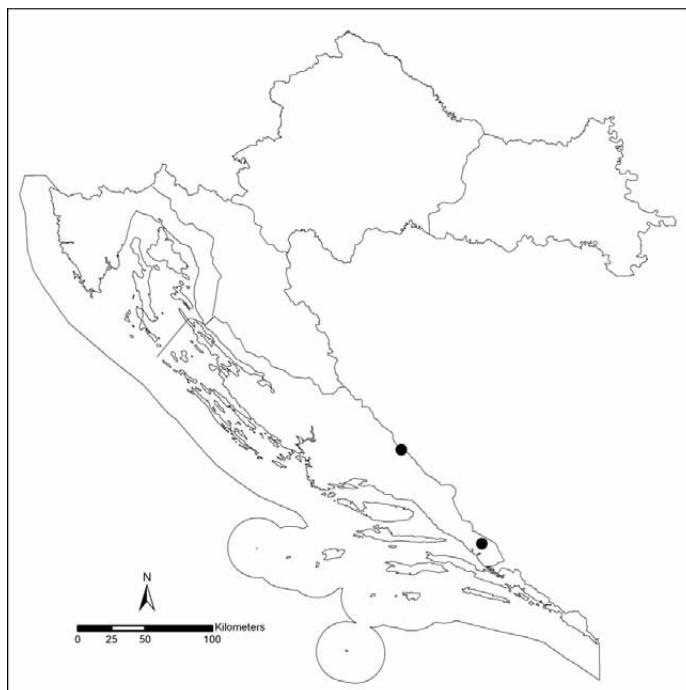


Fig. 18. Croatian distribution of *Alpioniscus verhoeffi*.

22. *Titanethes albus* (C. Koch, 1841) (Tab. 23, Fig. 19)

Synonyms: *Pherusa alba* C. Koch, 1841; *Titanethes absoloni* Verhoeff, 1901; *T. brevicornis* Joseph, 1882; *T. fracticornis* Joseph, 1882; *T. nodifer* Verhoeff, 1901

Distribution: NE-Italy, Slovenia (SCHMALFUSS, 2003); Croatia (POTOČNIK, 1989)

Type locality: Postojnska jama (cave system, Slovenian cave cadastre no. 747), Postojna, Slovenia [Adelsbergergrotte in Krain (KOCH, 1841)]

Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 23. List of recorded localities for *Titanethes albus*

| Locality | UTM | Region | Source |
|--|------|--------|---------------------------------------|
| Crna pećina (cave), Korana, Plitvička jezera, Korenica | WK47 | M | REDENŠEK, 1958 |
| Golubnjača (cave), Korana, Plitvička jezera, Korenica | WK47 | M | CBSS collection 330 REDENŠEK, 1958 |
| Mračna špilja (cave), Korana, Plitvička jezera, Korenica | WK47 | M | REDENŠEK, 1958 |

| | | | |
|---|------|---|---|
| Šupljara (cave), Kaluđerovac, Plitvička jezera, Korenica | WK47 | M | LANGHOFFER, 1915a STROUHAL, 1939b REDENŠEK, 1958 |
| Baraćeva špilja (cave), Nova Kršlja, Rakovica, Slunj* | WK58 | M | STROUHAL, 1939b |
| Donja Baraćeva špilja (cave), Nova Kršlja, Rakovica, Slunj | WK58 | M | CBSS collection 331 STROUHAL, 1939b OZIMEC, 2003 HLAVÁČ & JALŽIĆ, 2010 |
| Dumeničića špilja (cave), stara Kršlja, Rakovica, Slunj | WK58 | M | CNHM collection 44 CBSS collection 332 LOHAJ & LAKOTA, 2010 |
| Gornja Baraćeva špilja (cave), Nova Kršlja, Rakovica, Slunj | WK58 | M | LANGHOFFER, 1915a STROUHAL, 1939b OZIMEC, 2003 |
| Zobenica pećina (cave), Stara Kršlja, Rakovica, Slunj | WK58 | M | LANGHOFFER, 1915a STROUHAL, 1939b |
| Zvirjak pećina (cave), Rakovica, Slunj | WK58 | M | STROUHAL, 1939b |
| Šarića jama (cave), Risovac, Frkašić, Plješivica, Korenica | WK65 | M | MZUF collection 8 |
| Krčevina (cave), Krčevina, Capačuša, Nebljusi, Donji Lapac, Plješivica | WK74 | M | BUTUROVIĆ, 1963 |
| Špilja pod Zimzelom (cave), Potok Musulinski, Ogulin** | WL01 | M | HLAVÁČ & JALŽIĆ, 2010 |
| Pećnik (cave), Puškarići, Ogulin | WL11 | M | CNHM collection 45 CASALE & JALŽIĆ, 1999 |
| Jama 3 (cave), Malik, Kuštrovka, Trošmarija | WL12 | M | CBSS collection 333 |
| Jama na Bertiji 1 (cave), Bertija, Malik, Kuštrovka, Trošmarija | WL12 | M | CBSS collection 334 |
| Jama na Bertiji 2 (cave), Bertija, Malik, Kuštrovka, Trošmarija | WL12 | M | CBSS collection 335 |
| Kuštrovka (cave), Kuštrovka, Trošmarija | WL12 | M | CBSS collection 336 |
| Ambarac (sinkhole), Oštarije, Ogulin | WL20 | M | CNHM collection 46 JURINAC, 1886 JURINAC, 1888 LANGHOFFER, 1912 LANGHOFFER, 1915b CSIKI, 1926 STROUHAL, 1939b |
| Mandelaja (cave), Oštarije, Ogulin | WL20 | M | CBSS collection 337 |
| Munjava (sinkhole), Josipdol, Ogulin | WL20 | M | STROUHAL, 1939b |
| Špilja u Mekoti (cave), Košare, Tounj | WL20 | M | STILLER, 1914 ¹ STROUHAL, 1939b |
| Cerička pećina (cave), Tounj | WL21 | M | STROUHAL, 1939b |
| Gugečka pećina (cave), Gornje Dubrave, Tounj | WL21 | M | STILLER, 1911b ¹ STROUHAL, 1939b |
| Mikašinovića špilja (cave), Bistrica, Mikašinovići, Gornje Dubrave, Tounj | WL21 | M | CBSS collection 338 JALŽIĆ & BOŽIČEVIĆ, 1975 |
| Sušica (sinkhole), Rebića Glavica, Generalski Stol | WL21 | M | CBSS collection 339 |
| Špilja u kamenolomu Tounj (cave), Kamenolom Tounj, Tounj | WL21 | M | CBSS collection 340 |
| Tamnica (cave), Potok Tounjski, Tounj | WL21 | M | CBSS collection 341 |
| Vrelić (cave), Donje Dubrave, Generalski Stol | WL21 | M | CBSS collection 342 |
| Bibička špilja (cave), kanjon Ribnjaka, Munjasi, Trošmarija | WL22 | M | CBSS collection 343 |

| | | | |
|---|------|---|---|
| Danetska pećina (cave), kanjon Dobre, Dani, Bosiljevo | WL22 | M | CBSS collection 344 |
| Dragina pećina na Dobri (cave), kanjon Dobre, Grabrk, Trošmarija, Karlovac | WL22 | M | CBSS collection 345 |
| Jama II kod Kolića (cave), Kolići, Generalski Stol | WL22 | M | CBSS collection 346 |
| Jama na Gnojini (cave), Gnojina, Mateše, Trošmarija | WL22 | M | CBSS collection 347 |
| Jama na rubu (cave), Bartolovići, Gornje Dubrave, Tounj | WL22 | M | CBSS collection 348 |
| Jama u kanjonu Dobre ispod Grabrka (cave), kanjon Dobre, Podumol, Bosiljevo | WL22 | M | MZUF collection 9 CBSS collection 349 |
| Ledenica u Špeharima (cave), Špehari, Bosiljevo | WL22 | M | CBSS collection 350 |
| Pećina pod Pećanim (cave), kanjon Dobre, Pećani, Generalski Stol | WL22 | M | CBSS collection 351 |
| Špilja kod Podumolskog mlinu (cave), kanjon Dobre, Podumol, Bosiljevo | WL22 | M | CBSS collection 352 |
| Trijama II (cave), Špehari, Bosiljevo | WL22 | M | CBSS collection 353 |
| Vodena jama (cave), Kolići, Generalski Stol | WL22 | M | CBSS collection 354 |
| Dot (cave), Kunić Ribnički, Netretić, Lipnik, Karlovac | WL24 | C | CBSS collection 355 |
| Jama bez imena (cave), Rosopoajnik, Netretić, Lipnik, Karlovac | WL24 | C | CBSS collection 356 |
| Jama na Škrilama (cave), Kunić Ribnički, Netretić, Lipnik, Karlovac | WL24 | C | CBSS collection 357 |
| Vatrena jama (cave), Kunić Ribnički, Netretić, Lipnik, Karlovac | WL24 | C | CBSS collection 358 |
| Zvonečka II (cave), Griče, Netretić, Lipnik, Karlovac | WL24 | C | MZUF collection 10 |
| Pivnica (cave), Žakanje, Kamanje | WL25 | C | CBSS collection 359 |
| Brijačica (cave), Gaj, Sekulići, Radatovići, Žumberak | WL26 | C | CBSS collection 360 |
| Cepinka (cave), Boići, Sošice, Žumberak | WL26 | C | CBSS collection 361 |
| Dakina jama (cave), Rajakovići, Radatovići, Žumberak | WL26 | C | CBSS collection 362 |
| Drobovnik (cave), Kunčani, Radatovići, Žumberak | WL26 | C | CBSS collection 363 MZUF collection 11 |
| Jama kod Starog mlinu (cave), Boići, Sošice, Žumberak | WL26 | C | CBSS collection 364 |
| Jama na Javorniku (cave), Kuljaji, Gudalji, Radatovići, Žumberak | WL26 | C | CNHM collection 47 CBSS collection 365 |
| Jama u Lukama (cave), Sekulići, Radatovići, Žumberak | WL26 | C | CBSS collection 366 |
| Jama u Vrloj strani (cave), Gudalji Radatovići, Žumberak | WL26 | C | CBSS collection 367 |
| Kotari (cave), Kuljaji, Radatovići, Žumberak | WL26 | C | CBSS collection 368 |
| Lalovićeva jama (cave), Magovci, Radatovići, Žumberak | WL26 | C | CNHM collection 48 CBSS collection 369 |
| Milićka (cave), Kuljaji, Radatovići, Žumberak | WL26 | C | CBSS collection 370 |
| Pavlovica (cave), Keseri, Radatovići, Žumberak | WL26 | C | CBSS collection 371 |
| Pečenjevka (cave), Keseri, Radatovići, Žumberak*** | WL26 | C | CBSS collection 372 |
| Pećine (spring cave), Malinci, Radatovići, Žumberak | WL26 | C | CBSS collection 373 |
| Plavinka (cave), Gaj, Sekulići, Radatovići, Žumberak | WL26 | C | CBSS collection 374 |
| Rakička (cave), Pilatovci, Radatovići, Žumberak | WL26 | C | CBSS collection 375 |
| Špilja kod Juraševe livade (cave), Sekulići, Radatovići, Žumberak | WL26 | C | CBSS collection 376 |
| Tržička špilja (cave), Šimić brdo, Tržič Primisljanski, Tounj | WL30 | M | CNHM collection 49 JURINAC, 1886 JURINAC, 1888 LANGHOFFER, 1912 LANGHOFFER, 1915b CSIKI, 1926 STROUHAL, 1939b |

| | | | |
|--|------|----|--|
| Ledenička špilja (cave), Rebrovići, Tounj | WL31 | M | STROUHAL, 1939b |
| Lipa na Protulipi (cave), Starešinići, Protulipa, Bosiljevo | WL32 | C | CBSS collection 377 |
| Izvor špilja kod Trupković mlini (cave), Novigrad na Dobri, Karlovac | WL33 | C | CBSS collection 378 |
| Jastrebina (cave), Frketić Selo, Novigrad na Dobri, Karlovac | WL33 | C | CBSS collection 379 |
| Jama pod Gradom (cave), Dugi vrh, Cerovica, Krašić, Žumberak | WL35 | C | CBSS collection 380 |
| Potok (cave), Furjanići, Ozalj, Žumberak | WL35 | C | CBSS collection 381 |
| Rogovac (cave), Lović Prekriški, Ozalj, Žumberak | WL35 | C | CBSS collection 382 |
| Špilja pokraj Kozjače (cave), kanjon Kupe, Kamanje, Ozalj, Karlovac | WL35 | C | CBSS collection 383 |
| Vrlovka (cave), kanjon Kupe, Kamanje, Ozalj, Karlovac | WL35 | C | CNHM collection 50 CBSS collection 384 LANGHOFFER, 1912 LANGHOFFER, 1915a LANGHOFFER, 1915b CSIKI, 1926 STROUHAL, 1939b ² BEDEK <i>et al.</i> , 2009 |
| Zverina (cave), Dugi vrh, Cerovica, Krašić, Žumberak | WL35 | C | CBSS collection 385 |
| Žlota (cave), Ferenci, Ozalj, Žumberak | WL35 | C | CBSS collection 386 |
| Jamina (cave), Donji Oštrelj, Krašić, Žumberak | WL36 | C | CBSS collection 387 |
| Provala (cave), Bučari, Krašić, Žumberak | WL36 | C | CBSS collection 388 MZUF collection 12 |
| Špilja u Lukama (spring cave), Jezerine, Krašić, Žumberak | WL36 | C | CBSS collection 389 |
| Vrulje (sinkhole), Jezerine, Krašić, Žumberak | WL36 | C | CBSS collection 390 |
| Mlađenova pećina (cave), Bandino Selo, Slunj | WL40 | C | LANGHOFFER, 1915a STROUHAL, 1939b |
| Jopićeva špilja – Bent (cave system), Krnjak, Karlovac | WL41 | C | CBSS collection 391 |
| Vražića špilja (cave), Barilović, Karlovac | WL42 | C | LANGHOFFER, 1915a STROUHAL, 1939b |
| Bribirska pećina (cave) | | | STROUHAL, 1939b |
| Jezero (cave) | | | LANGHOFFER, 1915a |
| Kovačevka pećina (cave) | | | STROUHAL, 1939b |
| Velika pećina (cave) | | | STROUHAL, 1939b |
| Nature Park »Žumberak-Samoborsko gorje« | | C | BEDEK, 2005b |
| Tounj surroundings | | M | SKET, 1986 |
| Region between Josipdol and Plitvice | | M | FRANKENBERGER & STROUHAL, 1940 |
| Northern Croatia | | | MUNIĆ <i>et al.</i> , 2000 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | TABACARU, 1996 POTOČNIK, 1989 |
| MISIDENTIFICATION | | | |
| Mala Zečica (cave), Labinštica, Labin, Trogir**** | WJ92 | SL | GIROMETTA, 1913 |
| Marčina jama (cave), Labinštica, Labin, Trogir**** | WJ92 | SL | GIROMETTA, 1913 |
| Velika Zečica (cave), Labinštica, Labin, Trogir**** | WJ92 | SL | GIROMETTA, 1913 |
| Jama kod Kljačine (cave), Radošić, Trogir**** | XJ02 | SL | GIROMETTA, 1914 |
| Jama pod Malim Kraljevcem (cave), Radošić, Trogir**** | XJ02 | SL | GIROMETTA, 1914 |

| | | | |
|---|------|----|--------------------------------------|
| Jama pod Čezinim humcem (cave), Gornji Muć, Moseć, Sinj**** | XJ13 | SL | GIROMETTA, 1914 |
| Orlovača (cave), Bitunjska greda, Gornji Muć, Moseć, Sinj**** | XJ13 | SL | GIROMETTA, 1914 |
| Jama na Brlogu (cave), Stari gaj, Ramljane, Moseć, Sinj**** | XJ14 | SL | GIROMETTA, 1914 |
| Golubinjka jama (cave), Jesenice, Poljička, Omiš**** | XJ21 | SL | GIROMETTA, 1913 LANGHOFFER, 1915a |
| Nesretnja jama (cave), Poljička, Omiš**** | XJ | SL | GIROMETTA, 1913 LANGHOFFER, 1915a |
| Peć na Glušcu (cave), Sinj**** | XJ | SL | GIROMETTA, 1914 |
| Turska peć (cave), Poljička, Omiš**** | XJ | SL | GIROMETTA, 1913 LANGHOFFER, 1915a |
| Velika peć (cave), Poljička, Omiš**** | XJ | SL | GIROMETTA, 1913 LANGHOFFER, 1915a |

*It is probably one of the following caves, Donja Baraćeva špilja or Gornja Baraćeva špilja

**The identification is based on one female and two juvenile specimens; considering the distribution of *Titanethes* spp. this is probably a misidentification.

***This locality is on the Croatian-Slovenian border

****Misidentification (conclusion based according to the distribution of the genera *Titanethes* and *Alpioniscus*). The material is not available for the identification of the species.

¹ *Titanethes*

² *Titanethes dahli*

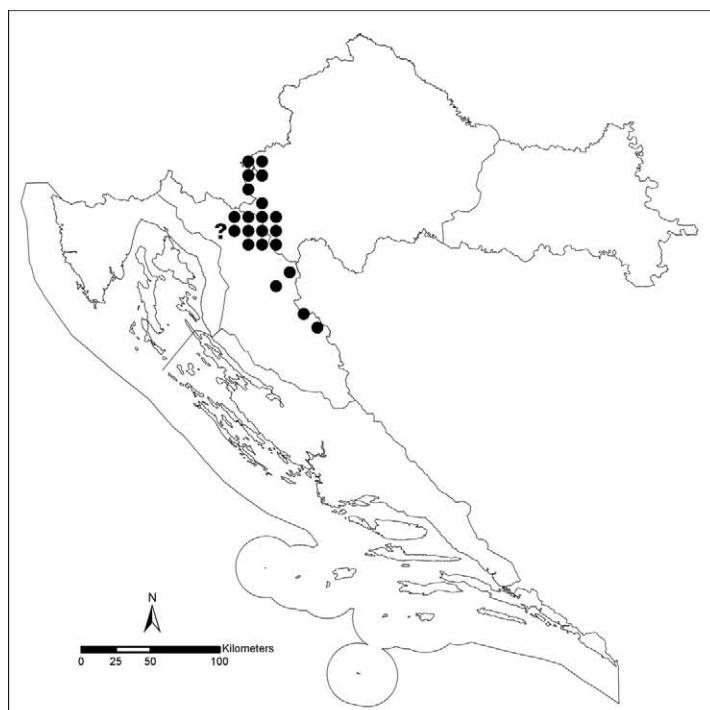


Fig. 19. Croatian distribution of *Titanethes albicus*.

23. *Titanethes dahli* Verhoeff, 1926 (Tab. 24, Fig. 20)

Distribution: NE-Italy, Slovenia, Croatia: Istria (SCHMALFUSS, 2003)
 Type locality: Divaška jama (cave, Slovenian cave cadastre no. 741), Divača, Slovenia [Divača-Grotte, Krains (VERHOEFF, 1926)]
 Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 24. List of recorded localities for *Titanethes dahli*

| Locality | UTM | Region | Source |
|--|------|--------|---|
| Velebita (cave system), Crikvena, Velebit, Krasno | VK95 | NL | CBSS collection 392 |
| | | | BAKŠIĆ <i>et al.</i> , 2008 |
| Jama kod Rašpora (cave), Rašpor, Lupoglav, Čićarija | VL23 | NL | CBSS collection 393 |
| Radota jama (cave), Rakitovec, Buzet, Čićarija | VL23 | NL | CBSS collection 394 |
| Jama kod crvenog gloga (cave), Mala Učka, Učka | VL31 | NL | CBSS collection 395 |
| Jama kod dječjeg oporavilišta 2 (cave), Poklon, Učka | VL31 | NL | CBSS collection 396 |
| Jama kod Male Učke (cave), Mala Učka, Učka | VL31 | NL | CBSS collection 397 |
| Jama na Poklonu (cave), Poklon, Učka | VL31 | NL | CBSS collection 398 |
| Jama za greben (cave), Stražica, Poklon, Učka | VL31 | NL | CBSS collection 399 |
| K'Učka (cave), Jazvina, Vela Učka, Učka, Opatija | VL31 | NL | CBSS collection 400 MZUF collection 13 |
| Pećina kod dječjeg oporavilišta (cave), Poklon, Učka | VL31 | NL | |
| Topolska peć (cave), Topol, Poklon, Učka | VL31 | NL | CBSS collection 402 |
| Babina jama (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CNHM collection 51 |
| Barinova jama (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 403 |
| Billova ponikva (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 404 |
| Borušnjak 1 (cave), Bončića kuća, Borušnjak, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 405 |
| Borušnjak 3 (cave), Bončića kuća, Borušnjak, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 406 |
| Bršljanovica (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 407 |
| Jama ispod Tominićevog brega (cave), Tominićev breg, Brest pod Učkom, Lupoglav, Čićarija | VL32 | NL | CBSS collection 408 |
| Jama na prevojiću (cave), Popova voda, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 409 |
| Jama pod Boljunskim dolom (cave), Boljuni dol, Brgudac, Lupoglav, Čićarija | VL32 | NL | CBSS collection 410 |
| Jama pod križ (cave), Podbrus, Semići, Čićarija, Lupoglav | VL32 | NL | CBSS collection 411 |
| Mali Borušnjak 6 (cave), Borušnjak, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 412 |
| Novogodišnja jama (cave), Bačvenik, Dolenja Vas, Lupoglav, Čićarija | VL32 | NL | CBSS collection 413 |
| Oštirova jama (cave), Vojni poligon iznad Bresta, Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 414 |
| Pećina pod Stržen (cave), Stržen, Brgudac, Čićarija, Lupoglav | VL32 | NL | CBSS collection 415 |
| Pećina poli Vrtića (cave), Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 416 |
| SDB (cave), Golubine, Brgudac, Lupoglav, Čićarija | VL32 | NL | CNHM collection 52 CBSS collection 417 |

| | | | |
|---|------|----|--|
| SDB 2 (cave), Brgudac, Lupoglav, Čićarija | VL32 | NL | CBSS collection 418 MZUF collection 14 |
| SKH (cave), Golubine, Brgudac, Lupoglav, Čićarija | VL32 | NL | CBSS collection 419 |
| Vela peć (cave), Brest pod Učkom, Čićarija | VL32 | NL | CBSS collection 420 |
| Grnjača (cave), Grnjač, Lovrantska Draga, Učka, Lovran | VL41 | NL | CBSS collection 421 |
| Jama kod potoka Banine 3 (cave), Menderi, Veprinac, Učka | VL41 | NL | CBSS collection 422 |
| Jama na Lovrantskim lažićima (cave), Lovrantski lažići, Menderi, Veprinac, Učka | VL41 | NL | CBSS collection 423 |
| Jama pod Velikim Knezgradom (cave), Veliki Knezgrad, Tuliševica, Lovran, Učka | VL41 | NL | CBSS collection 424 |
| Kaverna u tunelu Učka (cave), Veprinac, Učka | VL41 | NL | CBSS collection 425 |
| Proljetna jama (cave), Veliki Knezgrad, Lovrantska Draga, Učka, Lovran | VL41 | NL | CBSS collection 426 |
| Blaževa jama (cave), Puži, Opatija | VL42 | NL | FRANKENBERGER, 1939 KARAMAN, 1966 |
| Jama u Velim Sapcima 3 (cave), Mahenac, Veprinac, Opatija | VL42 | NL | CBSS collection 427 |
| Jama u Vtvi (cave), Vetven vrh, Poljane, Opatija, Čićarija | VL42 | NL | CBSS collection 428 |
| Pećina Ivana Stanića i Franja Stanić (cave), Puži, Opatija | VL42 | NL | FRANKENBERGER, 1939 KARAMAN, 1966 |
| Pećina kod sela Puhari (cave), Puhari, Veprinac, Opatija | VL42 | NL | CBSS collection 429 |
| ZV – 1 (cave), Zvončev vrh, Veprinac, Opatija, Čićarija | VL42 | NL | CBSS collection 430 |
| Casello ferrovário (cave), Permani, Opatija | VL43 | NL | WOLF, 1938 ² STROUHAL, 1939b |
| Pećina Marije Ružić, Permani (cave), Opatija | VL43 | NL | FRANKENBERGER, 1939 KARAMAN, 1966 |
| Vrelo (cave), Fužine | VL71 | NL | CBSS collection 431 OZIMEC et al., 2011a |
| Hircova jama (cave), Kaličak, Crni Lug, Risnjak | VL73 | M | CBSS collection 432 |
| Kapaljka 1 (cave), Gerovo, Risnjak | VL73 | NL | CBSS collection 433 |
| Nacina jama (cave), Gerovo, Risnjak | VL73 | NL | CBSS collection 434 |
| Ruševina (cave), Japetova šegina, Gerovo, Risnjak | VL73 | M | CBSS collection 435 |
| Štemajzlinka (cave), Japetova šegina, Gerovo, Risnjak | VL73 | M | CBSS collection 436 |
| Trlica 1 (cave), Gerovo, Risnjak | VL73 | M | CBSS collection 437 |
| Vele vode (sinkhole), Crni Lug | VL73 | M | CBSS collection 438 |
| Bukovac (cave), Vrata, Lokve, Delnice | VL82 | M | STROUHAL, 1939b |
| Ledena špilja (cave), Golubinjak, Lokve, Delnice | VL82 | M | STILLER, 1911a ¹ LANGHOFFER, 1915a ² STROUHAL, 1939b |
| Lokvarka (cave), Lokve, Delnice | VL82 | M | STROUHAL, 1939a STROUHAL, 1939b KARAMAN, 1966 CASALE et al., 2004 |
| Nove jame (cave), Lokve, Delnice | VL82 | M | STROUHAL, 1939b |
| Pustinja (cave), Delnice | VL82 | M | STILLER, 1913 ¹ LANGHOFFER, 1915a ² STROUHAL, 1939b |
| Jama iznad Hajdove hiže (cave), Kuželj, Delnice | VL83 | M | CBSS collection 439 |

| | | | |
|--|------|----|---|
| Markov ponor (sinkhole), Lipovo Polje, Donji Kosinj, Otočac | WK15 | M | CNHM collection 53 CBSS collection 440 MZUF collection 15 JALŽIĆ, 2001 |
| Siničića špilja (cave), Kalanj, Brinje | WK18 | M | CNHM collection 54 |
| Crnačka špilja (cave), Crnačko polje, Obajdini, Jezerane, Velika Kapela | WK19 | M | CBSS collection 441 MZUF collection 16 |
| Rokina bezdana (cave), Crnačko polje, Jezerane, Velika Kapela | WK19 | M | CBSS collection 442 |
| Veliki (cave), Kosinj, Otočac | WK25 | M | STROUHAL, 1939b |
| Samograd (cave), Perušić, Gospic | WK34 | M | STROUHAL, 1939b |
| Sitvukova pećina (cave), Perušić, Gospic | WK34 | M | CNHM collection 55 LANGHOFFER, 1912 ² LANGHOFFER, 1915b ² CSIKI, 1926 ² STROUHAL, 1939b |
| Luška špilja (cave), Debeli lug, Bjelsko, Ogulin | WL00 | M | CNHM collection 56 CBSS collection 443 LANGHOFFER, 1912 ² LANGHOFFER, 1915b ² CSIKI, 1926 ² STROUHAL, 1939b ² |
| Sušik (sinkhole), Drežničko polje, Drežnica, Velika Kapela | WL00 | M | CBSS collection 444 |
| Vidovića špilja (cave), Drežničko polje, Drežnica, Velika Kapela, Ogulin | WL00 | M | CNHM collection 57 CBSS collection 445 |
| Špilja pod Mačkovom dragom (cave), Mačkova draga, Jasenak, Ogulin | WL01 | M | CNHM collection 58 CBSS collection 446 MZUF collection 17 |
| Lištrovica (cave), Brezno, Bjelsko, Velika Kapela, Ogulin | WL10 | M | CBSS collection 447 |
| Zagorska peć (cave), Desmerice, Zagorje, Ogulin | WL10 | M | CNHM collection 59 CBSS collection 448 JURINAC, 1886 ² JURINAC, 1888 ² LANGHOFFER, 1912 ² CSIKI, 1926 ² STROUHAL, 1939b ² OZIMEC, 2009 ² |
| Dulin ponor – Medvedica (cave system), Ogulin | WL11 | M | CBSS collection 449 MZUF collection 18 STROUHAL, 1939b |
| Ambarac (sinkhole), Oštarije, Ogulin | WL20 | M | CNHM collection 60 |
| Mandelaja (cave), Oštarije, Ogulin | WL20 | M | CBSS collection 450 |
| Gojak (spring cave), Gojak, Ogulin | WL21 | M | CNHM collection 61 CBSS collection 451 |
| Hajdučka pećina (cave), Bistrac, Gornje Dubrave, Ogulin | WL21 | M | CBSS collection 452 |
| Perčevića špilja (cave), Kanjon Tounjčice, Tounj | WL21 | M | CNHM collection 62 |
| Tounjčica (cave), Kanjon Tounjčice, Tounj | WL21 | M | CBSS collection 453 |
| Tržička špilja (cave), Šimić brdo, Tržič Primišljanski, Tounj | WL30 | M | CNHM collection 63 |
| Pećina Bivio Beruća (cave), Grošovići, Opatija | VL | NL | FRANKENBERGER, 1939 |
| Likar ponor (sinkhole), Pazariste | WK | M | ERHARD, 1997 |

| | | | |
|--|------|----|----------------------------------|
| Langhofferova špilja (cave), Ogulin | WL | M | STROUHAL, 1939b |
| Zerngol špilja (cave), Ogulin | WL | M | STROUHAL, 1939b |
| Špilja kod Starigrada (cave) | | | STROUHAL, 1939b |
| Opatija surroundings | | NL | FRANKENBERGER & STROUHAL, 1940 |
| Istria | | NL | HIRC, 1902 ² |
| | | | VERHOEFF, 1931c |
| | | | SCHMALFUSS, 2003 |
| Gorski Kotar | | | SKET, 1986 |
| Region from Lokve and Ogulin till Gospic and Perušić | | M | FRANKENBERGER et STROUHAL, 1940 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | TABACARU, 1996 POTOČNIK, 1989 |
| MISIDENTIFICATION | | | |
| Medina špilja, Perušić, Gospic* | WK34 | M | LANGHOFFER, 1912 ² |
| | | | LANGHOFFER, 1915b ² |
| | | | CSIKI, 1926 ² |
| | | | STROUHAL, 1939b |

*Examination of the CNHM collection (Crustacea, leg. A. Langhoffer, 14.08.1902.) shows that the female specimen probably belongs to the genus *Alpioniscus*.

¹*Titanethes*

²*Titanethes albus*

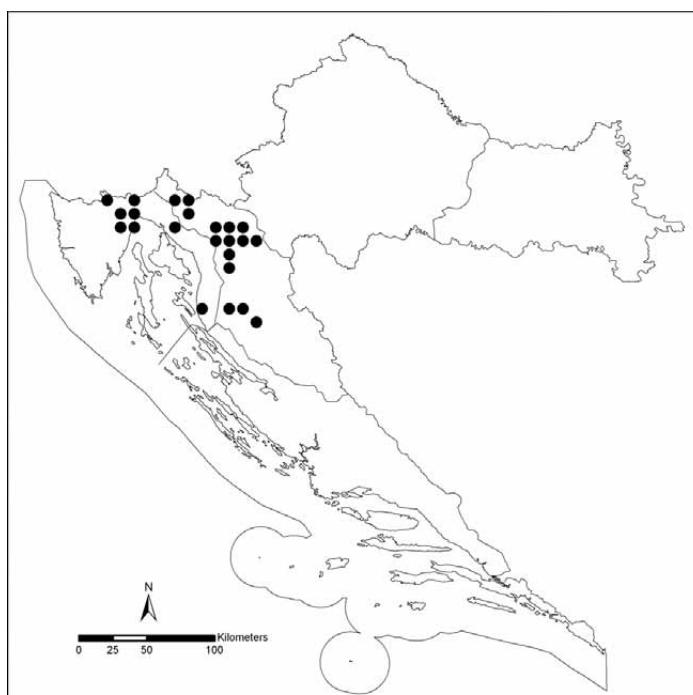


Fig. 20. Croatian distribution of *Titanethes dahli*.

24. *Cyphonethes herzegowinensis* (Verhoeff, 1900) (Tab. 25, Fig. 21)

- Synonyms: *Titanethes herzegowinensis* Verhoeff, 1900
- Distribution: SW-Herzegovina (SCHMALFUSS, 2003); Croatia (POTOČNIK, 1989)
- Type locality: Ilijina pećina (cave); Absturz-Höhle (cave); Vučja pećina (cave) and Matuliceva pećina (cave), Trebinje, Bosnia and Herzegovina [Bei Trebinje... Elias-Höhle, Absturz-, Wolfs- und Matulic-Höhle (VERHOEFF, 1900)]
- Ecological status: Troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

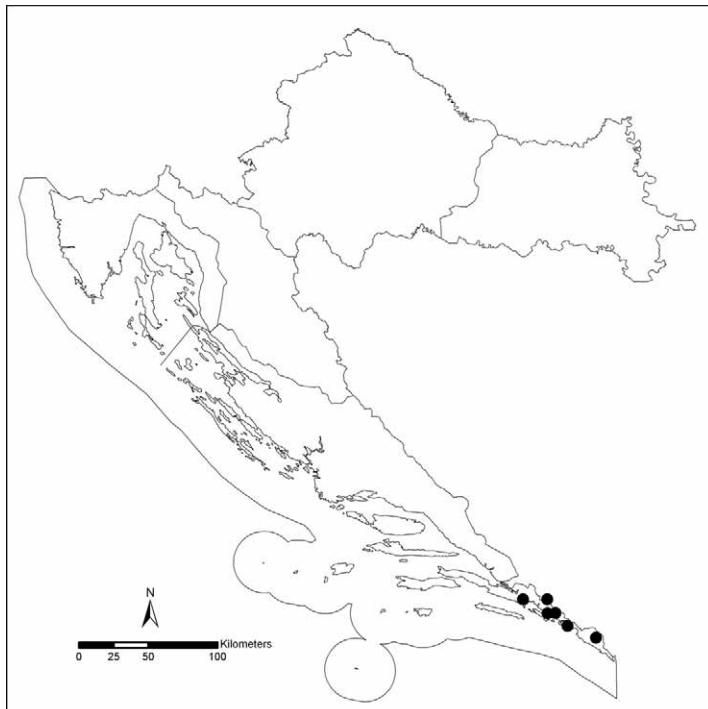


Fig. 21. Croatian distribution of *Cyphonethes herzegowinensis*.

Tab. 25. List of recorded localities for *Cyphonethes herzegowinensis*

| Locality | UTM | Region | Source |
|--|------|--------|---------------------|
| Aragonka (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 454 |
| Banova ljut (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 455 |
| Debeli ljut (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 456 |
| Jama na vrh Vrguda (cave), Vrgud, Osojnik, Dubrovnik | BN53 | SL | CBSS collection 457 |
| Jama u Zabiradu (cave), Zabirade, Osojnik, Dubrovnik | BN53 | SL | CBSS collection 458 |
| Močiljska špilja (cave), Somino brdo, Osojnik, Dubrovnik | BN53 | SL | CBSS collection 459 |
| | | | STROUHAL, 1939b |
| | | | OZIMEC, 2005 |
| Vilina špilja – Ombla (cave system), Komolac, Dubrovnik | BN62 | SL | CNHM collection 64 |

| | | | |
|---|------|----|---|
| Jezero (cave), Kuna Konavoska, Sniježnica, Cavtat | BN81 | SL | FRANKENBERGER, 1939 STROUHAL, 1939b |
| Škrabuljica (cave), Mali Orah, Kuna Konavoska, Sniježnica, Cavtat | BN81 | SL | FRANKENBERGER, 1939 |
| Vilenska jama (cave), Ston, Pelješac | YH24 | SL | STROUHAL, 1939b |
| Kukova peć (cave), Brsečine, Trsteno, Dubrovnik | YH43 | SL | CBSS collection 460 |
| Vitkovača (cave), Mravinjac, Trsteno, Dubrovnik | YH43 | SL | CBSS collection 461 |
| Zadubravica (cave), Zadubravica, Riđica, Dubrovnik | YH44 | SL | CBSS collection 462 |
| Pelješac region | | SL | FRANKENBERGER & STROUHAL, 1940 KARAMAN, 1966 |
| Dubrovnik region | | SL | SKET, 2003 |
| Wesern Pelješac | | SL | SKET, 1986 |
| Dalmatia | | SL | KARAMAN, 1966 |
| Southern Croatia | | SL | TABACARU, 1996 |
| From the Neretva to the S Montenegro region | | SL | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

25. *Trichoniscus matulici matulici* Verhoeff, 1901 (Tab. 26, Fig. 22)

- Synonyms: *Trichoniscus omblae* Verhoeff, 1901; *T. remyi* Verhoeff, 1933; *T. sorrentinus* Verhoeff, 1908; *T. stygivagus* Verhoeff, 1901; *T. turgidus* Verhoeff, 1929
- Distribution: Southern Italy including Sicily, Croatia, Bosnia and Herzegovina, Serbia and Montenegro (SCHMALFUSS, 2003); Slovenia (VILISICS & LAPANJE, 2005)
- Type locality: South Herzegovina (rock springs) [Südherzegowina an Felsenquellen (VERHOEFF, 1901)]
- Ecological status: Troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

Tab. 26. List of recorded localities for *Trichoniscus matulici matulici*

| Locality | UTM | Region | Source |
|---|------|--------|---------------------|
| Garden of Biological institute Lapat, Lapat, Dubrovnik | BN52 | SL | BUTUROVIĆ, 1955b |
| Rov na Lapadu, Lapat, Dubrovnik | BN52 | SL | BUTUROVIĆ, 1955b |
| Aragonka (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 463 |
| Banova ljun (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 464 |
| Debela ljun (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 465 |
| Jama na vrh Prodoli (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 466 |
| Jama na vrh Vrguda (cave), Vrgud, Osojnik, Dubrovnik | BN53 | SL | CBSS collection 467 |
| Jama u Zabiradu (cave), Osojnik, Dubrovnik | BN53 | SL | CBSS collection 468 |
| Jama uz stazu na Sv. Nikoli (cave), Orašac, Dubrovnik | BN53 | SL | CBSS collection 469 |
| Kaverna uz cestu iznad Gromače (cave), Gromača, Dubrovnik | BN53 | SL | CBSS collection 470 |
| Močiljska špilja (cave), Somino brdo, Osojnik, Dubrovnik | BN53 | SL | CBSS collection 471 |
| | | | BUTUROVIĆ, 1955b |
| | | | KARAMAN, 1966 |
| Rudina jama (cave), Gromača, Dubrovnik | BN53 | SL | CBSS collection 472 |
| Špilja ispod Krsta (cave), Na Krst, Loznica, Zaton, Dubrovnik | BN53 | SL | CBSS collection 473 |

| | | | |
|---|------|----|--------------------------------|
| Špilja na vrh Krčevina (cave), Krčevine, Gromaća, Orašac, Dubrovnik | BN53 | SL | CBSS collection 474 |
| Karle (cave), Gruž, Dubrovnik | BN62 | SL | STROUHAL, 1939e |
| Ombla (river bank), Dubrovnik | BN62 | SL | VERHOEFF, 1901 |
| | | | CSIKI, 1926 |
| | | | VANDEL, 1946 |
| | | | VANDEL, 1955 |
| Sumporača mala (cave), Komolac, Dubrovnik | BN62 | SL | CBSS collection 475 |
| Vilina špilja – Ombla (cave system), Komolac, Dubrovnik | BN62 | SL | CBSS collection 476 |
| | | | BUTUROVIĆ, 1955b |
| | | | KARAMAN, 1966 |
| Krivača (cave), Osojnik, Dubrovnik | BN63 | SL | CBSS collection 477 |
| Špilja u Gaju (cave), Osojnik, Dubrovnik | BN63 | SL | CBSS collection 478 |
| Durovića špilja (cave), Đurovići, Cavtat, Konavle | BN71 | SL | STROUHAL, 1939e |
| Šipun (cave), Cavtat, Dubrovnik | BN71 | SL | STROUHAL, 1939a |
| | | | STROUHAL, 1939e |
| | | | BUTUROVIĆ, 1955b |
| | | | VANDEL, 1955 |
| | | | KARAMAN, 1966 |
| Male ponte (cave), Grabova glava, Ropa, Mljet | XH93 | SL | CBSS collection 479 |
| Špilja kod Solina (cave), Soline, Mljet | XH93 | SL | CBSS collection 480 |
| Jarač na ponti od Graca (cave), Polače, Mljet | XH94 | SL | CBSS collection 481 |
| Jama za Svetim Ilijom (cave), Babino Polje, Mljet | YH03 | SL | CBSS collection 482 |
| Jama za Svetim Spasom (cave), Babino Polje, Mljet | YH03 | SL | CBSS collection 483 |
| Movrica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | CBSS collection 484 |
| | | | STROUHAL, 1939e |
| Ostaševica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | CBSS collection 485 |
| Velika špilja (cave), Blata, Mljet | YH03 | SL | CBSS collection 486 |
| Galičnjak (cave), Okuklje, Mljet | YH13 | SL | CBSS collection 487 |
| | | | MICULINIĆ, 2008 |
| Jama za Svetim Ivanom (cave), Babino Polje, Mljet | YH13 | SL | CBSS collection 488 |
| Kukova peć (cave), Brsečine, Trsteno, Dubrovnik | YH43 | SL | CBSS collection 489 |
| Pasja jama (cave), Brsečine, Trsteno, Dubrovnik | YH43 | SL | CBSS collection 490 |
| Zečja jama (cave), Kliševko, Dubrovnik | YH43 | SL | CBSS collection 491 |
| Zadubravica (cave), Zadubravica, Riđica, Dubrovnik | YH44 | SL | CBSS collection 492 |
| Lapad, Dubrovnik | BN52 | SL | KARAMAN, 1966 |
| Mljet | SL | SL | FRANKENBERGER & STROUHAL, 1940 |
| | | | VANDEL, 1946 |
| | | | KARAMAN, 1966 |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| Southern Dalmatia | SL | SL | VANDEL, 1946 |
| | | | SKET, 2003 |
| | | | STROUHAL, 1940a |
| | | | POTOČNIK, 1989 |
| Croatia | | | SCHMALFUSS, 2003 |

26. *Trichoniscus matulici metkovicensis* Buturović, 1955 (Tab. 27, Fig. 22)

Distribution: Croatia (POTOČNIK, 1989)

Type locality: Čočina jama (cave), Bebići, Metković, Dalmatia, Croatia [Čočina jama kod Bebića sela (BUTUROVIĆ, 1955b)]

Ecological status: Troglophilic

Tab. 27. List of recorded localities for *Trichoniscus matulici metkovicensis*

| Locality | UTM | Region | Source |
|---|------|--------|---------------------------|
| Kuna (cave), Čedor, Biokovo, Makarska | XH69 | SL | CBSS collection 493 |
| Mravinjuša jama (cave), Lozovci, Župa, Biokovo, Zagvozd | XJ70 | SL | CNHM collection 65 |
| | | | CBSS collection 494 |
| Čočina jama (cave), Bebići, Metković | YH07 | SL | BUTUROVIĆ, 1955b |
| | | | BUTUROVIĆ, 1955c |
| | | | KARAMAN, 1966 |
| | | | BEDEK et al., 2006 |
| | | | OZIMEC, 2008 ¹ |
| Biokovo | | SL | BEDEK, 2011 |
| Croatia | | | POTOČNIK, 1989 |

¹ *Trichoniscus matulici*

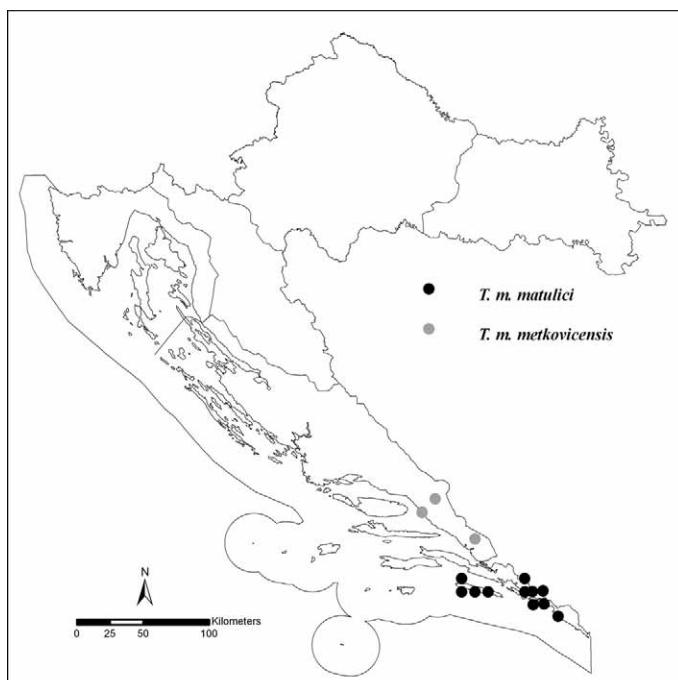


Fig. 22. Croatian distribution of *Trichoniscus matulici*.

TRICHONISCIDAE: HAPLOPHTHALMINAE

27. *Strouhaloniscellus biokovoensis* Bedek et Taiti, 2009 (Tab. 28, Fig. 23)

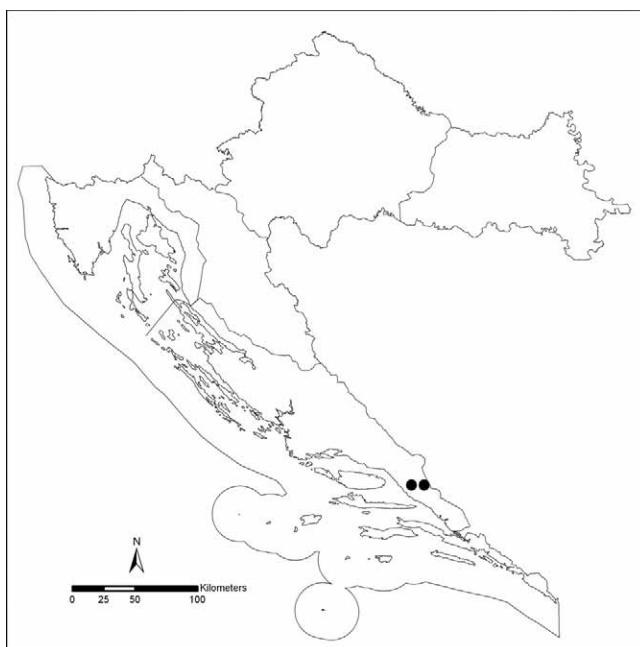
Distribution: Croatia: Mt. Biokovo (BEDEK & TAITI, 2009)

Type locality: Jama iznad Saranača (cave), Saranač, Gornje Igrane, Podgora, Biokovo, Dalmatia (BEDEK & TAITI, 2009)

Ecological status: Troglobiotic (BEDEK & TAITI, 2009)

Tab. 28. List of recorded localities for *Strouhaloniscellus biokovoensis*

| Locality | UTM | Region | Source |
|--|------|--------|-------------------------------------|
| Jama iznad Saranača (cave), Saranač, Gornje Igrane, Podgora, Biokovo | XH79 | SL | CBSS collection 495 |
| | | | MZUF collection 19 |
| | | | BEDEK & TAITI, 2009 |
| | | | BEDEK, 2010 |
| | | | JALŽIĆ et al., 2010 |
| Velika špilja (cave), Antunovići, Biokovo, Kozica | XH89 | SL | CBSS collection 496 |
| Biokovo | | SL | BEDEK, 2011 OZIMEC et al., 2011c |

**Fig. 23.** Distribution of *Strouhaloniscellus biokovoensis*.**28. *Troglocyphoniscus absoloni* Strouhal, 1939 (Tab. 29, Fig. 24)**

Distribution: Croatia: the island of Mljet (SCHMALFUSS, 2003)

Type locality: Movrica (cave), Dračevac, Babino Polje, the island of Mljet, Dalmatia, Croatia [Movrica auf der Insel Mljet (Meleda); BB Nr. 661 (STROUHAL, 1939c)]

Ecological status: This species is known as troglobiotic (STROUHAL, 1940a; BUTUROVIĆ, 1957), but it has to be considered as trogophilic since it occurs at cave entrances and eyes are present.

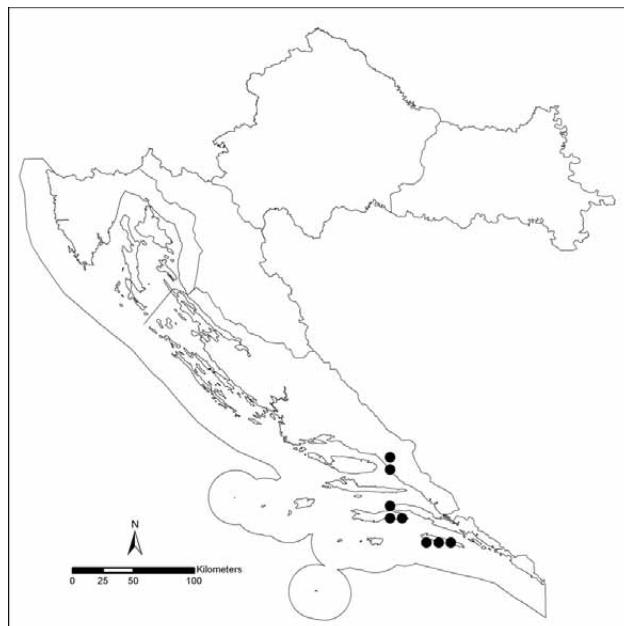


Fig. 24. Distribution of *Troglocyphoniscus absoloni*.

Tab. 29. List of recorded localities for *Troglocyphoniscus absoloni*

| Locality | UTM | Region | Source |
|---|------|--------|---|
| Polušpilja ispod kuće u Bastu (cave), Bast, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 497 |
| Jama na Mehovnju (cave), Veliki hom, Postrane, Žrnovo, Korčula | XH65 | SL | CBSS collection 498 |
| Jama u Dubokom dolu (cave), Duboki dol, Pupnat, Korčula | XH65 | SL | CBSS collection 499 |
| Samograd (cave), Račišće, Korčula | XH66 | SL | CBSS collection 500 |
| Bubnjavača (cave), Veprinac, Biokovo, Makarska | XH69 | SL | CBSS collection 501 |
| Jakasova špilja (cave), Glava, Rasohatica, Žrnovo, Korčula | XH75 | SL | CBSS collection 502 |
| Špilja kod Solina (cave), Soline, Mljet | XH93 | SL | CBSS collection 503 MZUF collection 20 |
| Movrica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | STROUHAL, 1939a STROUHAL, 1939c STROUHAL, 1939e STROUHAL, 1940b VANDEL, 1946 ARCANGELI, 1947 KARAMAN, 1966 BEDEK et al., 2006 JALŽIĆ et al., 2010 |

| | | | |
|---|------|----------------------|---------------------|
| Galičnjak (cave), Okuklje, Mljet | YH13 | SL | CBSS collection 504 |
| Mljet | SL | SCHMÖLZER, 1965a | |
| | | TABACARU, 1993 | |
| | | SCHMALFUSS, 2003 | |
| | | OZIMEC & BEDEK, 2005 | |
| From the Neretva to the S Montenegro region | | SL | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

29. *Cyphopleon kratochvili* (Frankenberger, 1939) (Tab. 30, Fig. 25)

Synonyms: *Cyphoniscellus kratochvili* Frankenberger, 1939

Distribution: Croatia: central Dalmatia (SCHMALFUSS, 2003)

Type locality: Špilja na Svilaji planini (cave), Mt. Svilaja, Vrlika, Dalmatia, Croatia [einer Höhle an der Svilaja Planina (Mitteldalmatien) (FRANKENBERGER, 1939)]

Ecological status: Troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957)

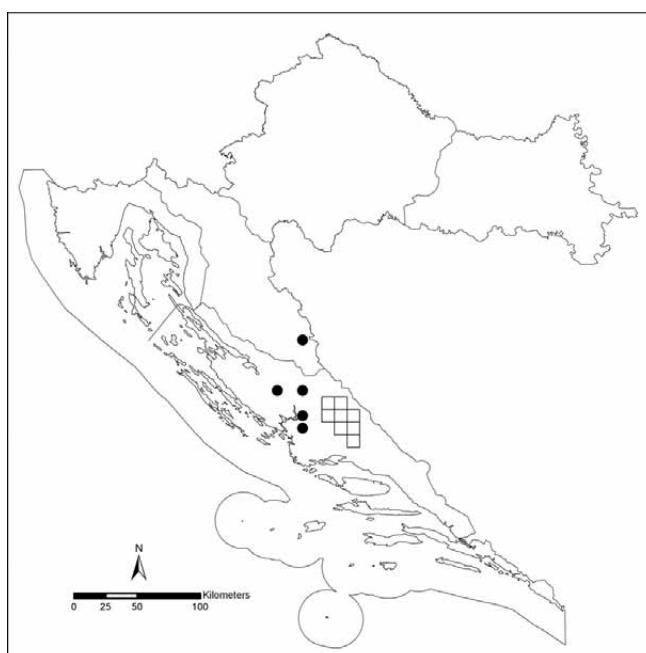


Fig. 25. Distribution of *Cyphopleon kratochvili*.

Tab. 30. List of recorded localities for *Cyphopleon kratochvili*

| Locality | UTM | Region | Source |
|--|------|--------|---------------------|
| Miljacka II (cave), Krka, Oklaj, Knin | WJ67 | SL | CBSS collection 505 |
| | | | MZUF collection 21 |
| Špilja kod Mlina na Miljacki (cave), Krka, Oklaj, Knin | WJ67 | SL | CBSS collection 506 |

| | | | |
|---|------|----|---------------------------|
| Stara jametina (cave), Punčka draga, G. Krnići, Konjevrate, Šibenik | WJ84 | SL | CBSS collection 507 |
| Jama nasuprotna Torka (cave), Torak, kanjon Čikole, Ključ, Drniš | WJ85 | SL | CBSS collection 508 |
| Topla peć (cave), Ključ, Čikola, Skradin | WJ85 | SL | CBSS collection 509 |
| Sedrena špilja iza mlina (cave), kanjon Krke, Burze, Kistanje, Knin | WJ87 | SL | CBSS collection 510 |
| Golubnjača (cave), Srebrenički potok, Hajdarovci, Srb, Plješivica | WK81 | M | BUTUROVIĆ, 1963 |
| Špilja na Svilaj planini (cave), Svilaja, Vrlika | XJ | SL | FRANKENBERGER, 1939 |
| | | | FRANKENBERGER, 1940 |
| | | | KARAMAN, 1966 |
| | | | SCHMIDT & LEISTIKOW, 2004 |
| | | | BEDEK et al., 2006 |
| Middle Dalmatia | | SL | TABACARU, 1993 |
| Central Dalmatia | | SL | SCHMÖLZER, 1965a |
| | | | SCHMALFUSS, 2003 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

30. *Cyphoniscellus herzegowinensis* (Verhoeff, 1900) (Tab. 31, Fig. 26)

Synonyms: *Cyphoniscus herzegowinensis* Verhoeff, 1900
 Distribution: Herzegovina (SCHMALFUSS, 2003); Croatia (POTOČNIK, 1989)
 Type locality: Vučja pećina (cave), Trebinje, Bosnia and Herzegovina [Wolfshöhle bei Trebinje (VERHOEFF, 1900)]
 Ecological status: Troglophilic (STROUHAL, 1940a; BUTUROVIĆ, 1957)
 All known localities are subterranean, and the species is often found deep in caves, so this species is most probably troglobiotic.

Tab. 31. List of recorded localities for *Cyphoniscellus herzegowinensis*

| Locality | UTM | Region | Source |
|--|------|--------|--------------------------------|
| Aragonka (cave), Ljubač, Dubrovnik | BN53 | SL | CBSS collection 511 |
| Jama na vrh Vrguda (cave), Vrgud, Osojnik, Dubrovnik | BN53 | SL | CBSS collection 512 |
| Močiljska špilja (cave), Somino brdo, Osojnik, Dubrovnik | BN53 | SL | CNHM collection 66 |
| | | | CBSS collection 513 |
| | | | OZIMEC, 2005 |
| Šipun (cave), Cavtat, Dubrovnik | BN71 | SL | STROUHAL, 1939c |
| | | | STROUHAL, 1939e |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Vilina pećina (cave), Gruda, Konavle, Cavtat | BN80 | SL | FRANKENBERGER, 1939 |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Samograd (cave), Račišće, Korčula | XH66 | SL | CBSS collection 514 |

| | | | |
|--|------|----|---------------------|
| Vilenska peć (cave), Ograđenica, Gumanca, Majkovi, Slano | YH34 | SL | CBSS collection 515 |
| Southern Dalmatia | | SL | STROUHAL, 1940b |
| From the Neretva to the S Montenegro region | | SL | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

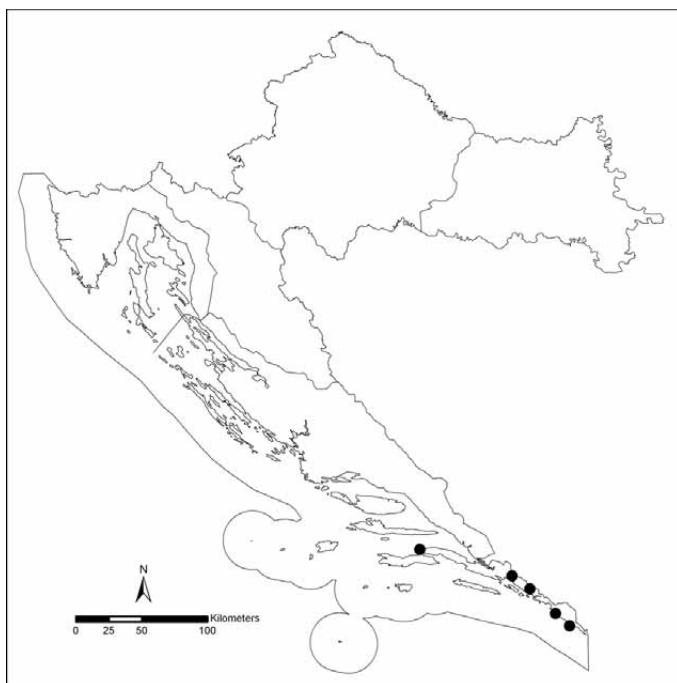


Fig. 26. Croatian distribution of *Cyphoniscellus herzegovinensis*.

TRICHONISCIDAE: BUDDELUNDIELLINEAE

31. *Buddelundiella cataractae* Verhoeff, 1930 (Tab. 32, Fig. 27)

- Distribution: Europe (SCHMALFUSS, 2003)
- Type locality: Krka (river, between waterfalls), Skradin, Dalmatia, Croatia [zwischen den Kerkawasserfällen Mitteldalmatiens oberhalb Skardona (VERHOEFF, 1930)]
- Ecological status: Widespread species, already recorded in caves in Liguria (VANDEL, 1960b) and in Sicily (CARUSO & BRISOLESE, 1974), common in caves in Croatia, thus we consider it a troglophilic species.

Tab. 32. List of recorded localities for *Buddelundiella cataractae*

| Locality | UTM | Region | Source |
|---|------|--------|---------------------|
| Sumporača (cave), Komolac, Dubrovnik | BN62 | SL | CBSS collection 516 |
| Durovića Špilja (cave), Đurovići, Cavtat, Konavle | BN71 | SL | CBSS collection 517 |

| | | | |
|---|------|----|--|
| Urinjska špilja (cave), Urinj, Kostrena, Rijeka | VL61 | NL | CBSS collection 518 LUKIĆ et al., 2011 ¹ |
| Mandalina (cave), Šibenik | WJ74 | SL | CBSS collection 519 |
| Krka (river, between waterfalls), Skradin | WJ75 | SL | VERHOEFF, 1930 |
| | | | SCHMÖLZER, 1965a |
| | | | FLASAROVÁ, 1966 |
| | | | KARAMAN, 1966 |
| Dalmatia | | SL | VERHOEFF, 1931c |
| Croatia | | | PAOLETTI, 1978 |

¹ *Buddelundiella cf. cataractae*

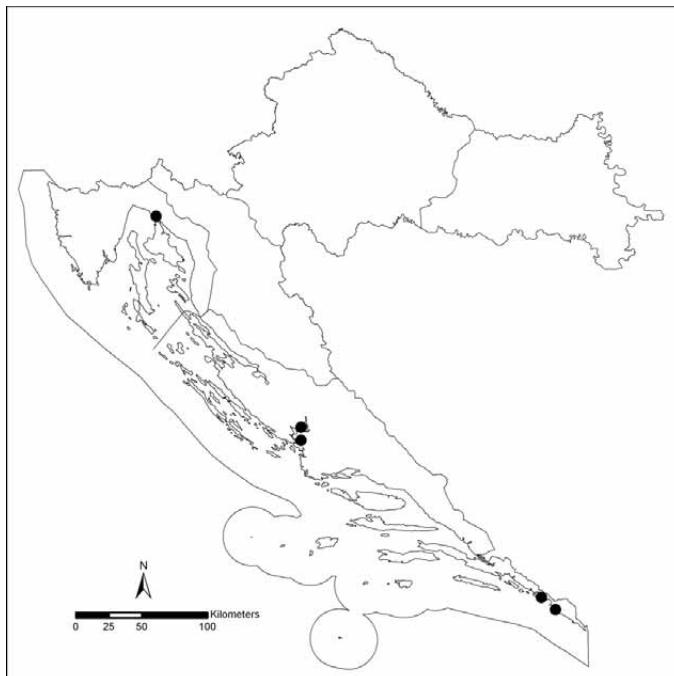


Fig. 27. Croatian distribution of *Buddelundiella cataractae*.

TRICHONISCIDAE: THAUMATONISCELLINAE

32. *Thaumatoniscellus speluncae* Karaman, Bedek et Horvatović, 2009 (Tab. 33, Fig. 28)

Distribution: Croatia: Mt. Učka (KARAMAN et al., 2009)

Type locality: Jama kod potoka Banine 3 (cave), Menderi, Veprinac, Učka, Croatia [Pit 3 near Banina Stream (KARAMAN et al., 2009)]

Ecological status: Troglobiotic (KARAMAN et al., 2009)

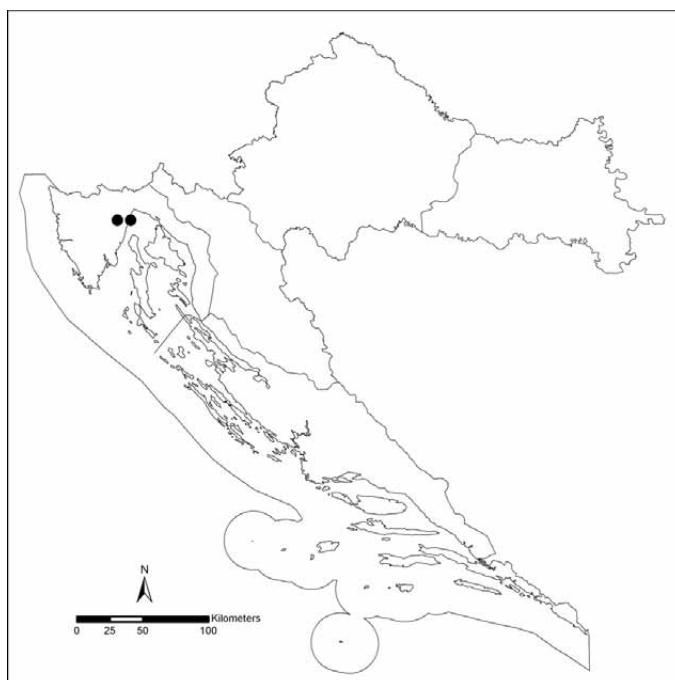


Fig. 28. Distribution of *Thaumatoniscellus speluncae*.

Tab. 33. List of recorded localities for *Thaumatoniscellus speluncae*

| Locality | UTM | Region | Source |
|--|------|--------|---|
| Jama iznad Vranjske drage (cave), Pikulići, Boljun, Vela draga, Učka | VL31 | NL | CBSS collection 520 |
| | | | MZUF collection 22 |
| Jama kod potoka Banine 3 (cave), Menderi, Veprinac, Učka | VL41 | NL | CBSS collection 521 |
| | | | DBE collection 1 KARAMAN <i>et al.</i> , 2009 JALŽIĆ <i>et al.</i> , 2010 |

PHILOSCIIDAE

33. *Chaetophiloszia cellaria* (Dollfus, 1884) (Tab. 34, Fig. 29)

Synonyms: *Chaetophiloszia italicica* (Verhoeff, 1901); *C. magnopunctata* (Strouhal, 1929); *C. pallida* Verhoeff, 1928; *C. piligera* Verhoeff, 1908; *C. pseudocellaria* (Arcangeli, 1934); *C. solerii* (Arcangeli, 1937); *Neophiloscia magnopunctata* Strouhal, 1929; *Philoscia cellaria* Dollfus, 1884; *P. italicica* Verhoeff, 1901; *P. pseudocellaria* Arcangeli, 1934; *P. solerii* Arcangeli, 1937

Distribution: Northern Mediterranean region from Spain to Greece (SCHMALFUSS, 2003)

Type locality: Beaune (basements), Côte-d'Or, France [caves de Beaune (Côte-d'Or) (DOL-LFUS, 1884)]

Ecological status: Troglophilic (VANDEL, 1962)

Tab. 34. List of recorded localities for *Chaetophiloscia cellaria*

| Locality | UTM | Region | Source |
|---|------|--------|------------------------------|
| Rudnik u Medveji (mine), Medveja, Lovran | VL41 | NL | CBSS collection 522 |
| Opatija | VL42 | NL | ARCANGELI, 1952 |
| Špilja iznad ceste (cave), brodogradilište V. Lenac, Kostrena, Rijeka | VL51 | NL | CBSS collection 523 |
| | | | LUKIĆ et al., 2011 |
| Mali štumbur (cave), Perilo, Kostrena, Rijeka | VL61 | NL | CBSS collection 524 |
| | | | LUKIĆ et al., 2011 |
| Urinjska špilja (cave), Urinj, Kostrena, Rijeka | VL61 | NL | CBSS collection 525 |
| | | | LUKIĆ et al., 2011 |
| Mandalina (cave), Šibenik | WJ74 | SL | CBSS collection 526 |
| Istria | | NL | ARCANGELI, 1947 |
| | | | ARCANGELI, 1950 |
| | | | VANDEL, 1962 |
| Croatia | | | POTOČNIK, 1989 |
| MISIDENTIFICATION | | | |
| Galičnjak (cave), Okuklje, Mljet* | | | MICULINIĆ, 2008 ¹ |

*Examination of the collection shows that the specimens belong to other not yet identified species

¹Chetophiloscia cf. cellaria

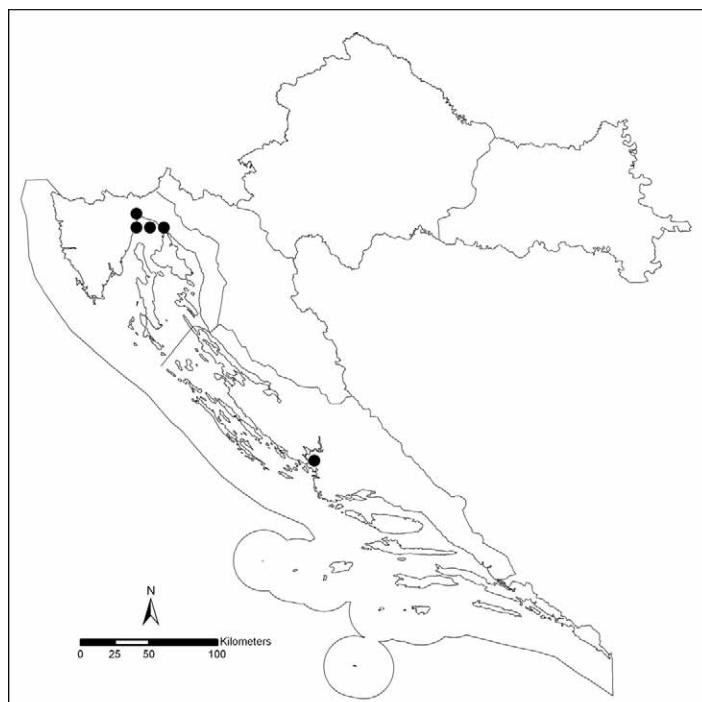


Fig. 29. Croatian distribution of *Chaetophiloscia cellaria*.

ONISCIDAE

34. *Oroniscus dalmaticus* Strouhal, 1937 (Tab. 35, Fig. 30)

- Synonyms: *Strouhalius dalmaticus* (Strouhal, 1937); *Strouhaloniscus dalmaticus* (Strouhal, 1937)
- Distribution: Croatia: Dalmatia (SCHMALFUSS, 2003)
- Type locality: Vranjača (cave), Kotlenice, Dugopolje, Split, Dalmatia, Croatia [Höhle Vranjača bei Dugopolje, am Fuße des Mosorgebirges; BB Nr. 334 (STROUHAL, 1937)]
- Ecological status: Troglophilic (STROUHAL, 1940a)

Tab. 35. List of recorded localities for *Oroniscus dalmaticus*

| Locality | UTM | Region | Source |
|---|------|--------|--------------------------------|
| Jama u Bratušu (cave), Bratuš, Makarska | XH69 | SL | CBSS collection 527 |
| | | | MZUF collection 23 |
| Kuna (cave), Čedor, Biokovo, Makarska | XH69 | SL | CBSS collection 528 |
| Gradská spila (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 529 |
| Matijaševa špilja (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 530 |
| Poskokova rupa (cave), Župa, Biokovo, Zagvozd | XH79 | SL | CBSS collection 531 |
| Stonjska peć donja (cave), Župa, Biokovo, Zagvozd, Zagvozd | XH79 | SL | CBSS collection 532 |
| Tučepska vilenjača (cave), Ravna vlaška, Biokovo, Tučepi | XH79 | SL | CBSS collection 533 |
| Vranjača (cave), Kotlenice, Mosor, Dugopolje, Split | XJ32 | SL | STROUHAL, 1937 |
| | | | ARCANGELI, 1939b |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | SCHMÖLZER, 1965a |
| | | | KARAMAN, 1966 |
| | | | BEDEK <i>et al.</i> , 2006 |
| Drinova II (cave), Drinova, Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 534 |
| Jama iznad Prozorčića (cave), Nevistine stine, Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 535 |
| Jamina (cave), Nevistine stine, Gornja Brela, Biokovo, Brela | XJ50 | SL | CBSS collection 536 |
| Male spile (cave), Crvene stine, Topiči, Biokovo, Baška Voda | XJ50 | SL | CBSS collection 537 |
| Kukor (cave), Bast, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 538 |
| Mala jama u stijenama (cave), Spiljice, Kaoci, Mucići, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 539 |
| Ograđena špilja pod Sv. Jurem (cave), Sv. Jure, Biokovo, Makarska | XJ60 | SL | CBSS collection 540 |
| Pećina kod Zagvozda (cave), Zagvozd, Biokovo | XJ60 | SL | BUTUROVIĆ, 1955c |
| | | | KARAMAN, 1966 |

| | | | |
|---|------|----|--|
| Pećina u Sridnjoj gori (cave), Sridnja gora, Zagvozd, Biokovo | XJ60 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Pružina (cave), Prodani, Biokovo, Zagvozd | XJ60 | SL | CBSS collection 541 |
| Špilja u Bastu (cave), Bast, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 542 |
| Čoćina jama (cave), Bebići, Metković | YH07 | SL | BUTUROVIĆ, 1955c KARAMAN, 1966 |
| Biokovo | | SL | OZIMEC, 2008 BEDEK, 2011 |
| Mosor | | SL | FRANKENBERGER, 1938b |
| Dalmatia | | | GOTTSTEIN <i>et al.</i> , 2001 GOTTSTEIN MATOČEC <i>et al.</i> , 2002 SCHMALFUSS, 2003 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

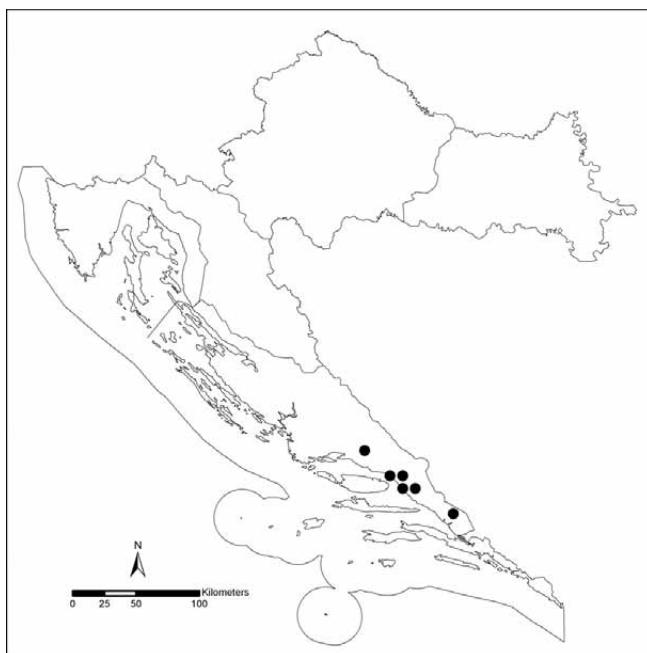


Fig. 30. Distribution of *Oroniscus dalmaticus*.

35. *Oroniscus meledensis* Strouhal, 1937 (Tab. 36, Fig. 31)

Synonyms: *Strouhalius meledensis* (Strouhal, 1937); *Strouhaloniscus meledensis* (Strouhal, 1937)

Distribution: Croatia: the island of Mljet (SCHMALFUSS, 2003)

Type locality: Ostaševica (cave), Dračevac, Babino Polje, the island of Mljet, Dalmatia, Croatia [»Špilja Ostaševica« auf der Insel Meleda; BB Nr. 660 (STROUHAL, 1937)]
 Ecological status: Troglophilic (STROUHAL, 1940a)

Tab. 36. List of recorded localities for *Oroniscus meledensis*

| Locality | UTM | Region | Source |
|--|------|--------|--|
| Ostaševica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | STROUHAL, 1937 |
| | | | STROUHAL, 1939e |
| | | | ARCANGELI, 1939b |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| | | | GOTTSTEIN <i>et al.</i> , 2001 |
| | | | GOTTSTEIN MATOČEC <i>et al.</i> , 2002 |
| | | | BEDEK <i>et al.</i> , 2006 |
| Mljet | | SL | FRANKENBERGER, 1938b |
| | | | SCHMÖLZER, 1965a |
| | | | SCHMALFUSS, 2003 |
| From the Neretva to the S Montenegro region | | SL | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

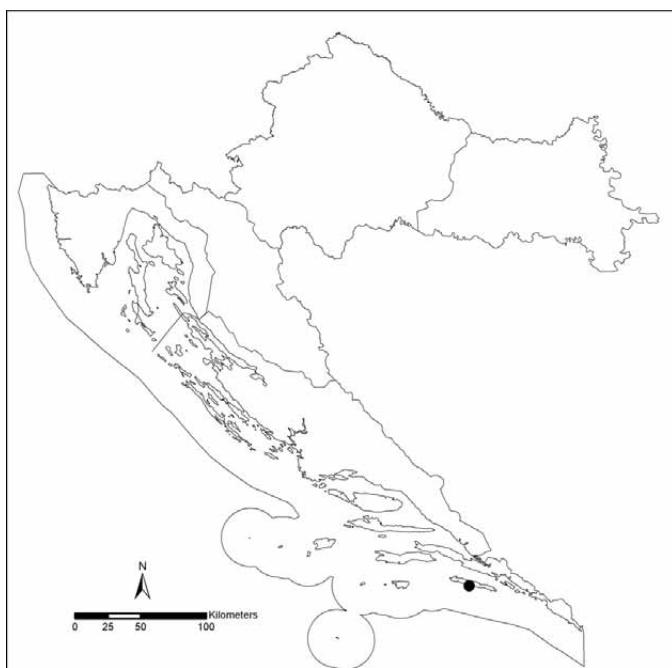


Fig. 31. Distribution of *Oroniscus meledensis*.

36. *Oroniscus stentai* (Arcangeli, 1926) (Tab. 37, Fig. 32)

- Synonyms: *Porcellio stentai* Arcangeli, 1926; *Strouhalius stentai* (Arcangeli, 1926); *Strouha-loniscus stentai* (Arcangeli, 1926)
- Distribution: Croatia (SCHMALFUSS, 2003)
- Type locality: Činjadra (cave), Nerežišća, the island of Brač, Dalmatia, Croatia [Grotta Cinjadra nell'Isola Brazza (ARCANGELI, 1926)]
- Ecological status: Troglophilic (STROUHAL, 1940a)

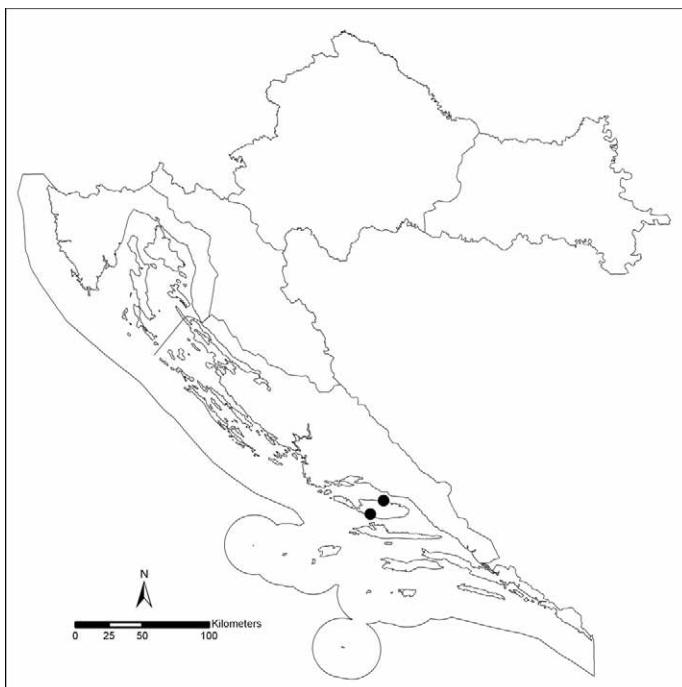


Fig. 32. Distribution of *Oroniscus stentai*.

Tab. 37. List of recorded localities for *Oroniscus stentai*

| Locality | UTM | Region | Source |
|---|------|--------|-----------------------------------|
| Špilja kod Murvice (cave), Murvica, Bol, Brač | XH29 | SL | FRANKENBERGER, 1938b ¹ |
| | | | ARCANGELI, 1939b |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| | | | GOTTSTEIN et al., 2001 |
| | | | GOTTSTEIN MATOČEC et al., 2002 |

| | | | |
|------------------------------------|------|----|--|
| Činjadra (cave), Nerežišća, Brač | XJ30 | SL | CBSS collection 543 ARCANGELI, 1926 ARCANGELI, 1939b KARAMAN, 1966 GOTTSTEIN <i>et al.</i> , 2001 GOTTSTEIN MATOČEC <i>et al.</i> , 2002 BEDEK <i>et al.</i> , 2006 JALŽIĆ <i>et al.</i> , 2010 |
| Brač | | SL | SCHMÖLZER, 1965a |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 SCHMALFUSS, 2003 |

¹ *Oroniscus dalmaticus*

ARMADILLIDIIDAE: ELUMINAE

37. *Typhlarmadillidium kratochvili* (Frankenberger, 1938)

(Tab. 38, Fig. 33)

- Synonyms: *Cylisticus kratochvili* Frankenberger, 1938; *Synarmadillidium kratochvili* (Frankenberger, 1938); *Troglarmadillidium kratochvili* (Frankenberger, 1938)
- Distribution: Croatia: the island of Korčula (SCHMALFUSS, 2003)
- Type locality: Jakasova špilja (cave), Glava, Rasohatica, Žrnovo, the island of Korčula, Dalmatia, Croatia [der Höhle bei Rasokatica im Gebirge Glava in der Umgebung des Dorfes Postrana auf der Insel Korčula (FRANKENBERGER, 1938b)]
- Ecological status: Trogophilic (troglobiotic?) (STROUHAL, 1940a)

Tab. 38. List of recorded localities for *Typhlarmadillidium kratochvili*

| Locality | UTM | Region | Source |
|--|------|--------|--|
| Jakasova špilja (cave), Glava, Rasohatica, Žrnovo, Korčula | XH75 | SL | FRANKENBERGER, 1938b |
| | | | ARCANGELI, 1939c |
| | | | FRANKENBERGER, 1940 |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | SCHMÖLZER, 1965b |
| | | | KARAMAN, 1966 |
| | | | BEDEK <i>et al.</i> , 2006 |
| | | | OZIMEC, 2010 |
| | | | STROUHAL, 1940a |
| From the Neretva to the S Montenegro region | | SL | FERRARA & TAITI, 1996 |
| | | | GOTTSTEIN <i>et al.</i> , 2001 |
| | | | GOTTSTEIN MATOČEC <i>et al.</i> , 2002 |
| | | | SCHMALFUSS, 2003 |
| Korčula | | SL | |
| | | | |

| | | | |
|------------------------------------|------|----|----------------|
| Croatia | | | POTOČNIK, 1989 |
| MISIDENTIFICATION | | | |
| Samograd (cave), Račišće, Korčula* | XH66 | SL | OZIMEC, 2004 |

* Re-examination of this material shows that no material belonging to this species was collected.

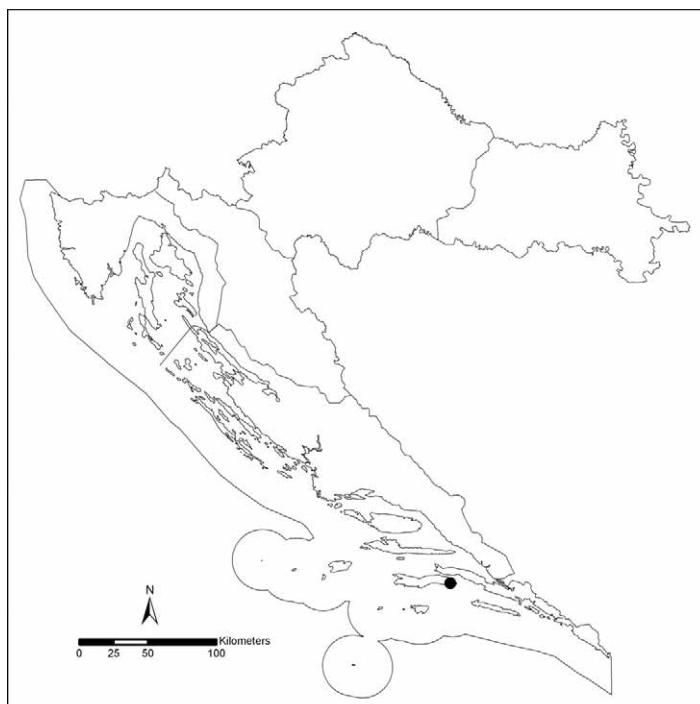


Fig. 33. Distribution of *Typhlarmadillidium kratochvili*.

38. *Typhlarmadillidium trebinjanum* (Verhoeff, 1900) (Tab. 39, Fig. 34)

Synonyms: *Armadillidium trebinjanum* Verhoeff, 1900; *Troglarmadillidium trebinjanum* Verhoeff, 1900

Distribution: Croatia, Herzegovina, Montenegro (SCHMALFUSS, 2003)

Type locality: Trebinje (surroundings), Bosnia and Herzegovina [der Umgegend von Trebinje in der Herzegowina (VERHOEFF, 1900)]

Ecological status: Trogophilic (STROUHAL, 1940a)

Tab. 39. List of recorded localities for *Typhlarmadillidium trebinjanum*

| Locality | UTM | Region | Source |
|---------------------------------|------|--------|--------------------|
| Šipun (cave), Cavtat, Dubrovnik | BN71 | SL | MZUF collection 24 |
| Ješkalovica (cave), Selca, Brač | XH49 | SL | STROUHAL, 1939c |
| | | | KARAMAN, 1966 |

| | | | |
|---|----|----|---|
| Brač | | SL | FRANKENBERGER & STROUHAL, 1940 SCHMÖLZER, 1965b FERRARA & TAITI, 1996 |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| From the Neretva to the S Montenegro region | SL | | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 SCHMALFUSS, 2003 |

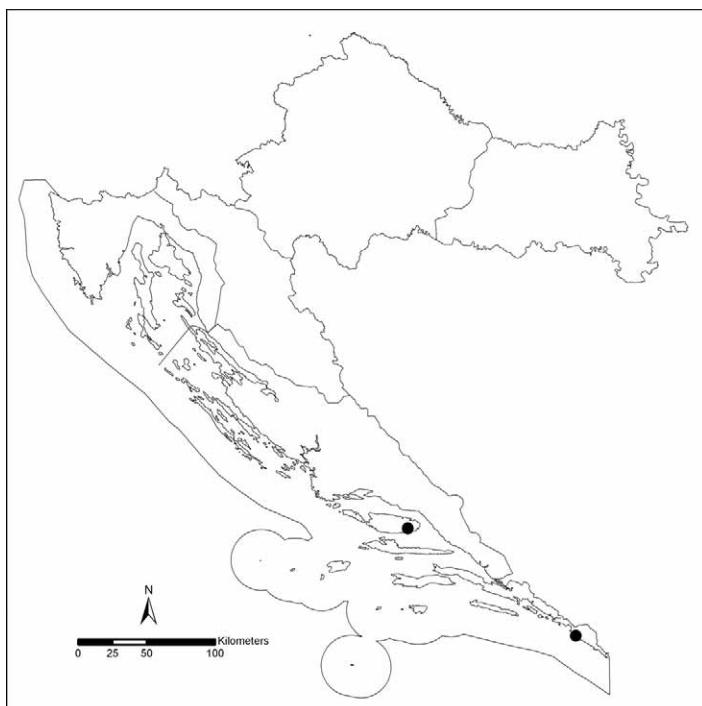


Fig. 34. Croatian distribution of *Typhlarmadillidium trebinjanum*.

ARMADILLIDIIDAE: ARMADILLIDIINAE

39. *Echinarmadillidium fruxgallii* (Verhoeff, 1900) (Tab. 40, Fig. 35)

- Synonyms: *Armadillidium fruxgallii* Verhoeff, 1900
- Distribution: Croatia: s-Dalmatia, Montenegro (SCHMALFUSS, 2003)
- Type locality: Ombla (river bank) and Lapad, Dubrovnik, Dalmatia, Croatia [Omblathale, ... der Halbinsel Lapad bei Gravosa (VERHOEFF, 1900)]
- Ecological status: Troglophilic (STROUHAL, 1940a)
This species is often found in caves, so we agree with STROUHAL in considering it as a troglophilic species.

Tab. 40. List of recorded localities for *Echinarmadillidium fruxgallii*

| Locality | UTM | Region | Source |
|--|------|--------|--------------------------------|
| Lapad, Dubrovnik | BN52 | SL | VERHOEFF, 1900 |
| | | | CSIKI, 1926 |
| | | | STROUHAL, 1934 |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| | | | SCHMIDT & LEISTIKOW, 2004 |
| Ombla (river bank), Dubrovnik | BN62 | SL | VERHOEFF, 1900 |
| | | | CSIKI, 1926 |
| | | | STROUHAL, 1934 |
| | | | FRANKENBERGER, 1938b |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Caretova špilja (cave), Vis, Vis | WH96 | SL | FRANKENBERGER, 1938b |
| | | | ARCANGELI, 1939c |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| Stračinčica (cave), Vela Luka, Korčula | XH45 | SL | CBSS collection 544 |
| Tabaina špilja (cave), Vela Luka, Korčula | XH45 | SL | CBSS collection 545 |
| | | | FRANKENBERGER, 1938b |
| | | | ARCANGELI, 1939c |
| | | | FRANKENBERGER & STROUHAL, 1940 |
| | | | KARAMAN, 1966 |
| | | | CBSS collection 546 |
| Hrastovska špilja (cave), Hrastovsko polje, Lastovo, Lastovo | XH53 | SL | MZUF collection 25 |
| | | | OZIMEC et al., 2008 |
| | | | CBSS collection 547 |
| Jama Cvjetana Barbića (cave), Skrivena Luka, Lastovo | XH53 | SL | OZIMEC et al., 2008 |
| Jama u uvali Kručica (cave), Zaklopatica, Lastovo, Lastovo | XH53 | SL | CBSS collection 548 |
| | | | OZIMEC et al., 2008 |
| Jama za Smokvom (cave), Skrivena Luka, Lastovo | XH53 | SL | CBSS collection 549 |
| | | | OZIMEC et al., 2008 |
| Lastovo, Lastovo | XH53 | SL | CBSS collection 550 |
| Medviđa ropa (cave), Skrivena Luka, Lastovo | XH53 | SL | CBSS collection 551 |
| | | | OZIMEC et al., 2008 |

| | | | |
|---|------|----|---|
| Špilja na Pozaliku (cave), Pržina, Skrivena Luka, Lastovo | XH53 | SL | CBSS collection 552 OZIMEC <i>et al.</i> , 2008 |
| Špilja pod Kaštel (cave), Kaštel, Lastovo, Lastovo | XH53 | SL | CBSS collection 553 OZIMEC <i>et al.</i> , 2008 |
| Samograd (cave), Račišće, Korčula | XH66 | SL | CBSS collection 554 OZIMEC, 2004 |
| Jama u Bratušu (cave), Bratuš, Makarska | XH69 | SL | CBSS collection 555 |
| Marijan, Split | XJ11 | SL | FRANKENBERGER, 1938b FRANKENBERGER & STROUHAL, 1940 KARAMAN, 1966 |
| Bast (endogean, forest), Biokovo, Baška Voda | XJ60 | SL | CBSS collection 556 |
| Špilja u Bastu (cave), Bast, Biokovo, Baška Voda | XJ60 | SL | CBSS collection 557 |
| Southern Dalmatia | | SL | VERHOEFF, 1939 SCHMÖLZER, 1965b SCHMALFUSS, 2003 |
| Dalmatia | | SL | VERHOEFF, 1931c |
| From SE Italy to the Cetina region | | | STROUHAL, 1940a |
| From the Neretva to the S Montenegro region | | SL | STROUHAL, 1940a |
| Croatia | | | POTOČNIK, 1989 |

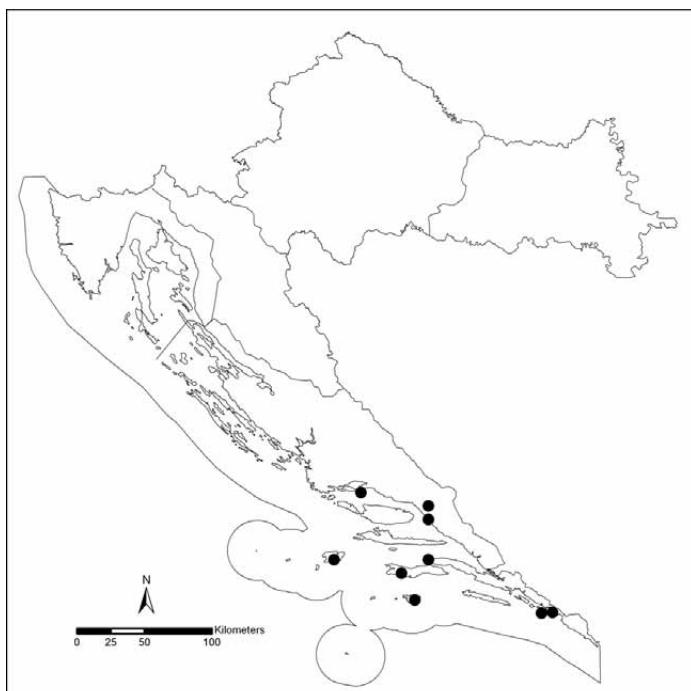


Fig. 35. Croatian distribution of *Echinarmadillidium fruxgallii*.

40. *Cyphodillidium absoloni* (Strouhal, 1934) (Tab. 41, Fig. 36)

- Synonyms: *Echinarmadillidium absoloni* Strouhal, 1934
 Distribution: Croatia: the island of Mljet (SCHMALFUSS, 2003)
 Type locality: Movrica (cave), Dračevac, Babino Polje, the island of Mljet, Dalmatia, Croatia [Pečina Movrica auf der Insel Meleda (STROUHAL, 1934)]
 Ecological status: Troglophilic

Tab. 41. List of recorded localities for *Cyphodillidium absoloni*

| Locality | UTM | Region | Source |
|---|------|--------|--|
| Jama u Velikom Desajdubu (cave), Veliki Desajdub, Polača, Mljet | XH93 | SL | CNHM collection 67 CBSS collection 558 |
| Male ponte (cave), Grabova glava, Ropa, Mljet | XH93 | SL | CBSS collection 559 |
| Špilja kod Solina (cave), Soline, Mljet | XH93 | SL | CBSS collection 560 |
| Špilja kod vrha Spile (cave), Vriješće, Polača, Mljet | XH93 | SL | CNHM collection 68 CBSS collection 561 |
| Bezdan (cave), Crna klapa, Ropa, Mljet | YH03 | SL | CBSS collection 562 |
| Jama za Svetim Spasom (cave), Babino Polje, Mljet | YH03 | SL | CBSS collection 563 |
| Movrica (cave), Dračevac, Babino Polje, Mljet | YH03 | SL | STROUHAL, 1934 FRANKENBERGER, 1938b FRANKENBERGER & STROUHAL, 1940 STROUHAL, 1939e KARAMAN, 1966 SCHMIDT & LEISTIKOW, 2004 BEDEK et al., 2006 JALŽIĆ et al., 2010 |
| Odisejeva špilja (cave), Babino Polje, Mljet | YH03 | SL | CBSS collection 564 |
| Špilja na brdu Bugara (cave), Bugara, Ropa, Mljet | YH03 | SL | FRANKENBERGER, 1938b ARCANGELI, 1939c KARAMAN, 1966 |
| Velika špilja (cave), Blata, Mljet | YH03 | SL | CBSS collection 565 FRANKENBERGER, 1938b ARCANGELI, 1939c KARAMAN, 1966 |
| Breg jama (cave), Babino Polje, Mljet | YH13 | SL | CBSS collection 566 |
| Galičnjak (cave), Okuklje, Mljet | YH13 | SL | CBSS collection 567 MICULINIĆ, 2008 |
| Jama za Svetim Ivanom (cave), Babino Polje, Mljet | YH13 | SL | CBSS collection 568 |
| Polušpilja kod Sobre (cave), Sobra, Mljet | YH13 | SL | MZUF collection 26 |
| Mljet | | SL | FRANKENBERGER & STROUHAL, 1940 SCHMÖLZER, 1965b GOTTSTEIN et al., 2001 ¹ GOTTSTEIN MATOČEC et al., 2002 ¹ SCHMALFUSS, 2003 OZIMEC & BEDEK, 2005 |
| Dalmatia | | SL | VERHOEFF, 1939 |
| Croatia | | | POTOČNIK, 1989 |

¹ *Cyphodillidium*

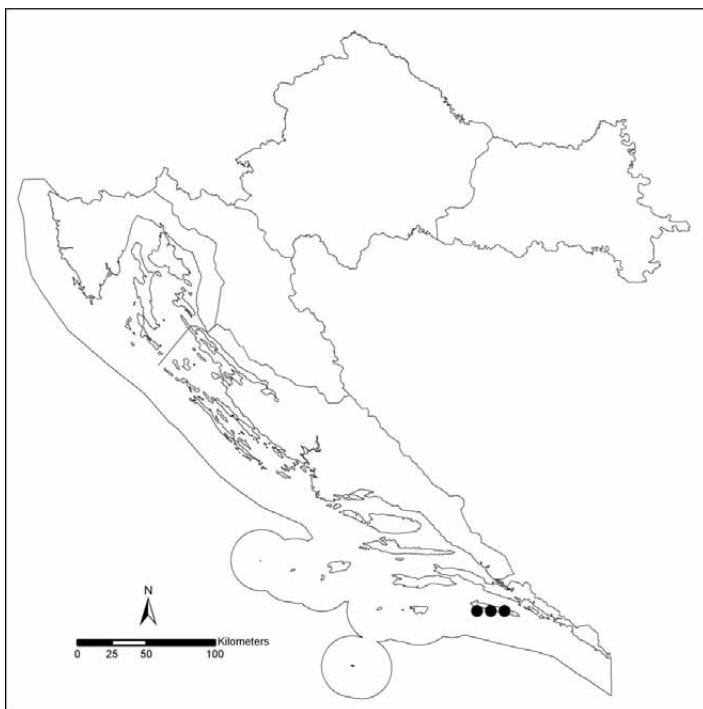


Fig. 36. Distribution of *Cyphodillidium absoloni*.

DISCUSSION

The karst area in Croatia covers approximately 46% of the national territory (GOTTSTEIN MATOČEC *et al.*, 2002). More than 9000 caves have been registered in Croatia (BAKŠIĆ & NOVOSEL), but literature data concerning subterranean terrestrial isopods include only 221 caves (~2,5 %) and 14 various localities (mines, endogean and epigean environment). Altogether, with the new records from collections, this paper presents data from 557 caves (~6,2 %), six artificial underground structures and 15 other epigean and subterranean localities (endogean, soil, etc.). Probably some localities from the collections are already present in the literature, but the old names are in some cases impossible to be referred to names of localities known at present.

Altogether 765 different records (one locality with one species) were gathered. Among them 275 records (~35,9 %) come from literature data, 601 (~78,6 %) from collection data, and 112 (~14,6 %) from both literature and collection data.

Thirty-five species and five subspecies of the cave-dwelling Oniscidea have been recorded. They are divided into five families and six subfamilies. The family Trichoniscidae and the subfamily Trichoniscinae are the most representative and include 13 (59 %) out of 22 Croatian endemic taxa, and 17 (85 %) out of 20 troglobiotic species (Tab. 42). The most represented genus is *Alpioniscus* with 10 species, followed by *Androniscus* with eight taxa (Fig. 37). Out of 26 cave species described in Croatia, 16

(~62 %) were described in the thirties of the last century, which was the result of intensive sampling done mostly in Dalmatia (Fig. 38).

Tab. 42. Number of genera, species, subspecies, endemic, troglobiotic and troglophilic taxa in different families and subfamilies

| Family/Subfamily | Genera | Spp. (sspp.) | Endemic spp. (sspp.) | Troglobiotic spp. (sspp.) | Troglophilic spp. (sspp.) |
|-----------------------|--------|-----------------|-------------------------|------------------------------|------------------------------|
| Mesoniscidae | 1 | 1 | 0 | 0 | 1 |
| Trichoniscidae | 12 | 26 (5) | 12 (5) | 19 (1) | 7 (4) |
| • Trichoniscinae | 6 | 20 (5) | 8 (5) | 16 (1) | 4 (4) |
| • Haplorthalminae | 4 | 4 | 3 | 2 | 2 |
| • Buddelundiellinae | 1 | 1 | 0 | 0 | 1 |
| • Thaumatoniscellinae | 1 | 1 | 1 | 1 | 0 |
| Philosciidae | 1 | 1 | 0 | 0 | 1 |
| Oniscidae | 1 | 3 | 3 | 0 | 3 |
| Armadillidiidae | 3 | 4 | 2 | 2 | 2 |
| • Eluminae | 1 | 2 | 1 | 0 | 2 |
| • Armadillidiinae | 2 | 2 | 1 | 0 | 2 |
| Total | 18 | 35 (5) | 17 (5) | 19 (1) | 16 (4) |

Only 165 (~20,3 %) out of 814 Croatian 10 x 10 km UTM squares have one or more cave species. However, plots with at least one cave species are more or less scattered all over the Dinaric region in Croatia. The UTM square VL41 belonging to the Northern Croatian Littoral macroregion has the maximum number of species (six),

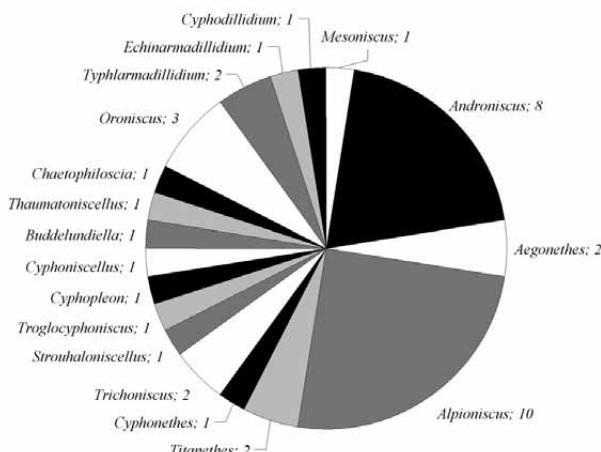


Fig. 37. Frequency distribution of genera of cave-dwelling terrestrial isopods in Croatia. Numbers refer to taxa in each genus.

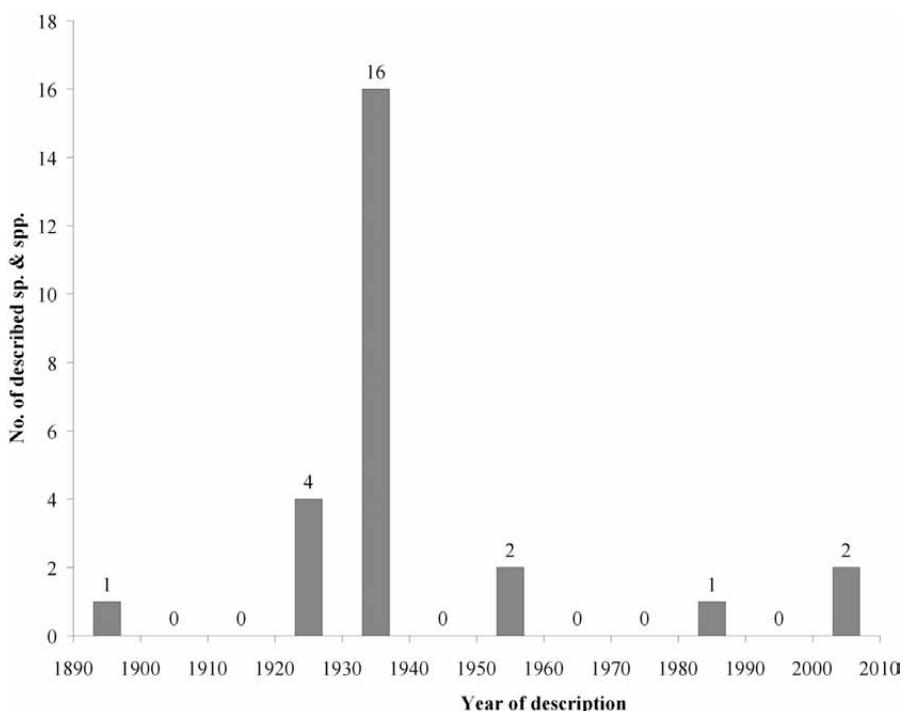


Fig. 38. Comparison of the number of cave species and subspecies described in Croatia from 1890 to present.

followed by plots BN 62, BN71, XH66, XH69 and YH03 belonging to the Southern Croatian Littoral macroregion with five species (Fig. 39). The islands of Mljet and Korčula, mountains of Biokovo and Učka, surroundings of the town of Dubrovnik, and the town of Ogulin are biodiversity hot spots of cave-dwelling terrestrial isopods in Croatia. The present situation might be changed when intensive investigations are carried out in still poorly explored karstic regions like Mt. Velebit.

The Southern Croatian Littoral and the Northern Croatian Littoral macroregions have many more species than the other Croatian macroregions. Out of 40 cave-dwelling taxa in Croatia the Southern Croatian Littoral macroregion has 27 (67,5 %) and the Northern Croatian Littoral macroregion has 15 (37,5 %) (Fig. 40).

The Southern Croatian Littoral macroregion has 16 (~72,7 %) out of 22 endemic cave taxa in Croatia, and among them, two are widespread and 14 are endemic to that region. Cavernicolous terrestrial isopods are recorded from nine Croatian islands out of a total of 79 islands and 523 islets. Eight species are endemic to a single island and occur on five islands. All the 40 cave-dwelling taxa in Croatia are distributed in the Dinaric karst area, and only three troglophilic species are also found outside that area (*Androniscus dentiger*, *A. roseus* and *Mesoniscus graniger*). There are no endemic taxa outside the Dinaric karst area (Fig. 41).

Distribution areas of the different species are unequal. Some troglophilic species are widespread, such as *Mesoniscus graniger* in Slovenia, Croatia, Serbia, Bosnia and

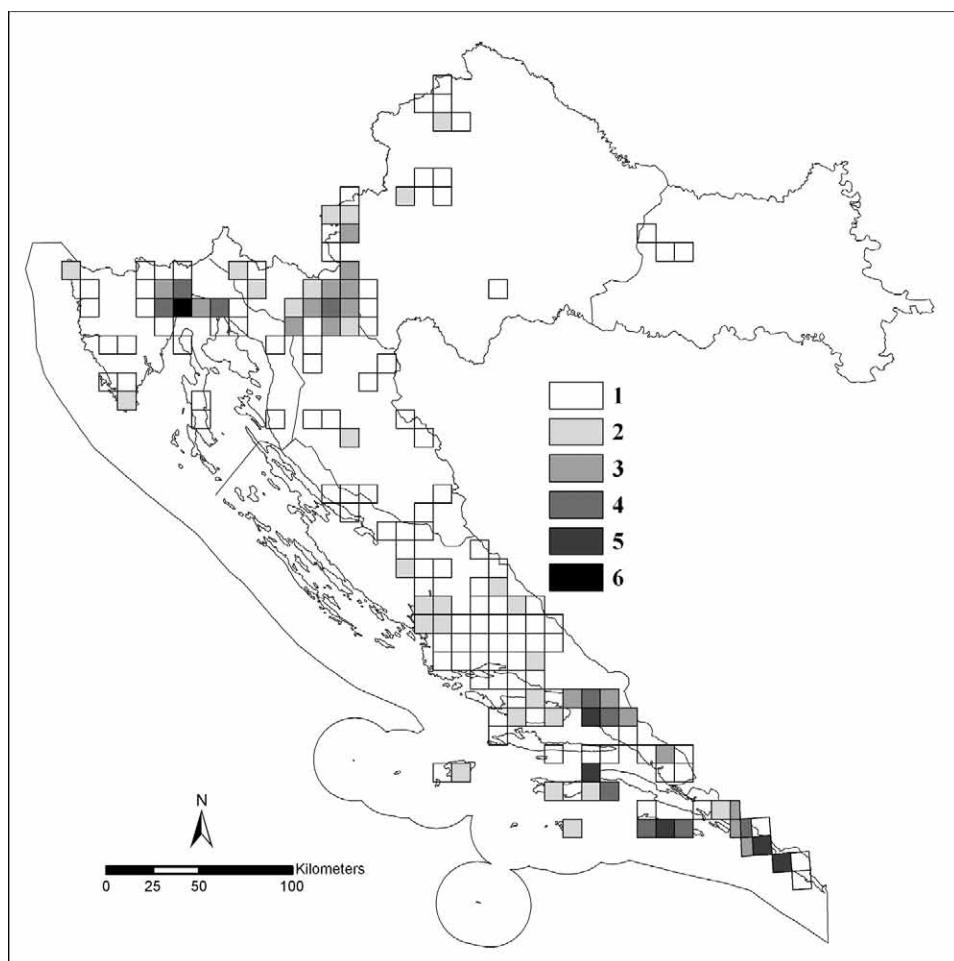


Fig. 39. 10×10 km UTM grid with numbers of species and subspecies of cave-dwelling terrestrial isopods in each square.

Herzegovina, Slovakia, Romania; *Androniscus roseus* from eastern France to Romania; *Chaetophiloscia cellaria* in the northern Mediterranean region; *Trichoniscus matulici* in southern Italy including Sicily, Slovenia, Croatia, Bosnia and Herzegovina and Montenegro. Some species are probably spread synanthropically such as *Buddelundiella cataractae* in Europe; *Androniscus dentiger* in Europe and North Africa, and in greenhouses in North America. The troglobiotic species *Aegonethes cervinus* is distributed across the Adriatic Sea in Italy (Gargano) and Croatia (Dubrovnik, the islands of Korčula and Mljet). In Croatia 23 species (out of 35) are distributed only in single macroregion. The most widely distributed taxa in Croatia are the troglophilic species *Mesoniscus graniger* and *Androniscus roseus* and the troglobiotic species *A. stygius*, found in three macroregions. Only four troglobiotic species (*Alpio-*

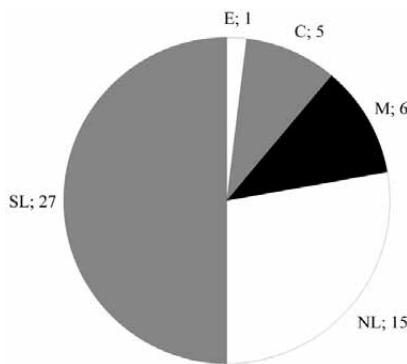


Fig. 40. Frequency distribution of species and subspecies present in Croatian macroregions. Numbers refer to taxa present in each macroregion – E (Eastern Croatia); C (Central Croatia); M (Mountainous Croatia); NL (northern Croatian Littoral); SL (Southern Croatian Littoral)

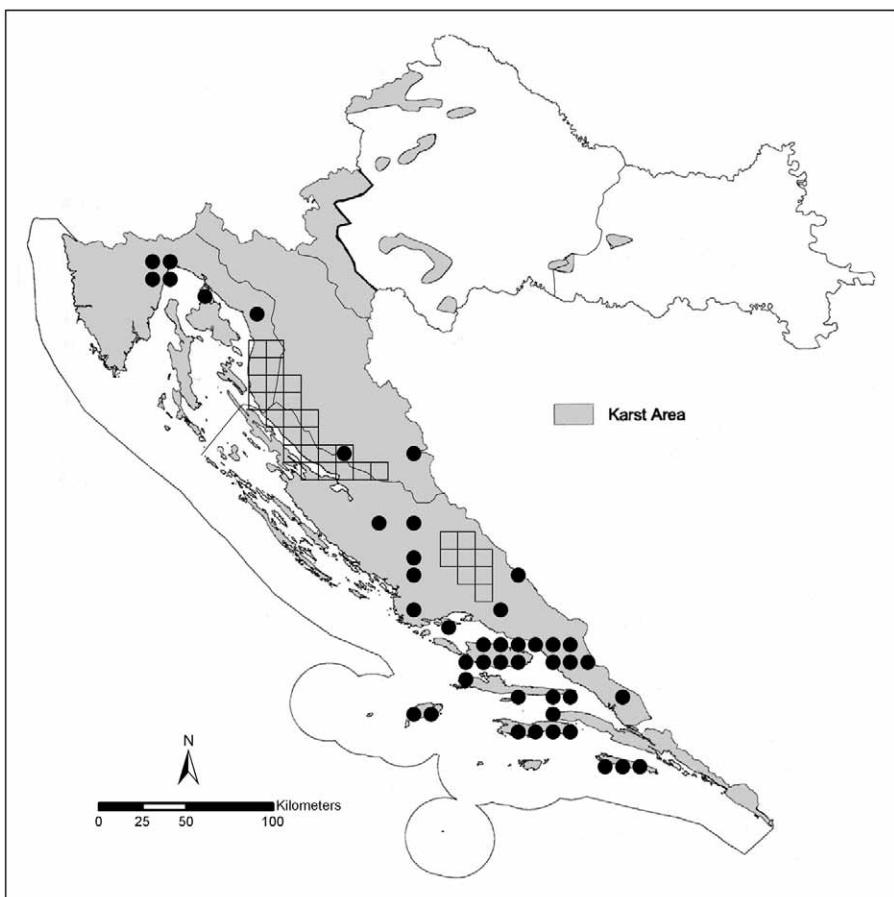


Fig. 41. Distribution of Croatian endemic taxa.

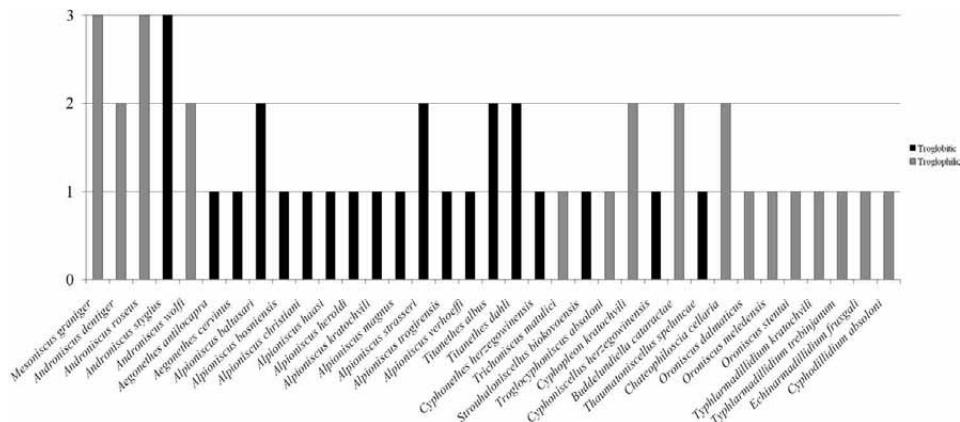


Fig. 42. Comparison of terrestrial isopod species inhabiting various number of Croatian macroregions with indicated ecological adaptation to the cave environment.

niscus balthasari, *A. strasseri*, *Titanethes albus* and *T. dahli*) are distributed in two macroregions, the rest are distributed only in a single macroregion (Fig. 42).

Recent data (published after 2005 or in this paper) have revealed new insights into several species. Although the species *Mesoniscus graniger* is not listed in some reviews (KARAMAN, 1966; POTOČNIK, 1989; SCHMALFUSS, 2003) there are old literature data for Croatia (ARCANGELI, 1939a). This record is from Istria, but in recent investigations in that region the species was not found, either in caves or in endogean habitats. *Mesoniscus graniger* was instead found on Mt. Medvednica, Mt. Ivančica, Mt. Papuk, the Banovina region and near Karlovac. Only the last locality is part of the Dinaric region (BEDEK, 2007b) (Tab. 1; Fig. 2). *Mesoniscus graniger* is one of the few cave isopods found in Croatia outside the Dinaric region.

The only known record in the literature for *Alpioniscus heroldi* is Benetina pećina near Slano (STROUHAL, 1939a). This cave is probably in Popovo polje in Herzegovina, near Slano, so there is no confirmed literature record of *A. heroldi* in Croatia. However, during recent investigations this species was found in several Croatian caves (Tab. 16; Fig. 13).

Alpioniscus herzegowinensis was recorded from the cave system Lukina jama – Trojama, Hajdučki kukovi, Mt. Velebit, Krasno (KEROVEC *et al.*, 1999). All collected material of the genus *Alpioniscus* from Lukina jama – Trojama and other deep pits in northern Mt. Velebit belong to other species, close to the *strasseri*-group (unpublished data). The species *A. herzegowinensis* is endemic for the Šuma region in SW Herzegovina, where microclimate conditions in caves are totally different from those of the deep pits of northern Mt. Velebit where air temperature in deep pits is more than 10°C lower, so this is probably a misidentification (Tab. 17).

The only known literature data for the species *Alpioniscus verhoeffi* is Šipilja u dolini Neretve, Neretva, Dalmatia (STROUHAL, 1938) which can be in Dalmatia or Herzegovina, and Bosnia is probably a misinterpreted datum (SCHMALFUSS, 2003). This species has been collected in several caves near Neretva River and, very surprisingly, also in Šipilja na Vršinoj glavici, Stražbenica, Otok, Sinj (Tab. 22; Fig. 18).

The new records resulted in a better understanding of the distribution pattern of several species listed in Croatia. For the species *Alpioniscus balthasari*, the limits of its distribution were extended by 100 km (Tab. 12, Fig. 9). *Androniscus wolfi* was found in the south part of Mt. Velebit (93 km from the only other known locality) (Tab. 9, Fig. 6), *Titanethes dahli* on Mt. Velebit (Tab. 24, Fig. 20), *Trichoniscus matulici metkovicensis* on Mt. Biokovo (Tab. 27, Fig. 22), *Buddelundiella cataractae* in the Dubrovnik and Rijeka regions (Tab. 32, Fig. 27), *Echinarmadillidium fruxgalii* and *Aegonethes cervinus* on the island of Lastovo (Tab. 40, Fig. 35; Tab. 11, Fig. 8), *Cyphoniscellus herzegowinensis* on the island of Korčula (Tab. 31, Fig. 26) and *Troglocyphoniscus absoloni* on Mt. Biokovo and the island of Korčula (Tab. 29, Fig. 24).

Some species cited in the literature have not been confirmed by recent, often repeated explorations in those caves such as, *Oroniscus meledensis* from the island of Mljet, and *Typhlarmadillidium kratochvili* from the island of Korčula.

In this paper only part of the CBSS collection is listed. It contains also many currently unidentified and several new species which will be treated in future papers. Moreover, members of the Croatian Biospeleological Society are still collecting material through numerous projects. Many oniscidean genera need to be revised, and many species to be redescribed. The state of understanding about cave terrestrial isopods in Croatia will probably be modified as a result of a necessary extensive taxonomic work.

ACKNOWLEDGEMENTS

Many acknowledgements to project leaders (in brackets) and financiers. Partially supported by: Ministry of Environmental Protection and Physical Planning (Branko Jalžić), Žumberak – Samoborsko gorje Nature Park (Roman Ozimec), Biokovo Nature Park (Roman Ozimec), the town of Dubrovnik (Marijana Franičević, married Cukrov), Rufford Small Grants for Nature Conservation (Jana Bedek), World Bank (Nikola Tvrtković), Netherlands Government (Nikola Tvrtković), Medvednica Nature Park (Roman Ozimec), Dubrovnik – Neretva County (Roman Ozimec), Dubrovnik Airport (Tihomir Kovačević, Roman Ozimec), the town of Crikvenica (Branko Jalžić), Krka National Park (Branko Jalžić, Kazimir Miculinić), Papuk Nature Park (Jana Bedek), Učka Nature Park (Jana Bedek), Mljet National Park (Helena Bilandžija, Ana Komerică), Ministry of Culture (Helena Bilandžija), Kostrena Municipality Tourist Office (Marko Lukić, Ana Komerică), State Institute for Nature Protection (Branko Jalžić, Roman Ozimec, Marko Lukić), Varazdin County (Roman Ozimec), Sisak – Moslavina County (Roman Ozimec), Croatian Electricity Company (Jana Bedek), European Union (Krunoslav Mlačak, Ljiljana Dravec), Croatian Natural History Museum (Vedran Jalžić), Velebit Nature Park (Jana Bedek).

We thank Marko Lukić for assistance in all stages of this work and for reviewing the manuscript, Roman Ozimec who collected most of the literature and helped with useful information, Branko Jalžić who helped with identifying the majority of localities from old literature and with other useful information. Dr Helmut Schmalfuss, Dr. Ferenc Vilisics, Dr Ivo Karaman, Darija Čaleta, Ivan Glavaš are particularly to be thanked for their help in collecting the missing literature. We are grateful to Slavko Polak, Dr. Fabio Stoch and Dr. Fulvio Gasparo for helping with names of

caves and localities, Dr Ivo Karaman for reviewing the manuscript, Hrvoje Cvitanović for correcting the names of caves, Ana Komerički and Graham McMaster for improving the English, and to the anonymous referees for valuable comments and suggestions.

We would like to thank all collectors of the material (by alphabetical order): Robert Baković, Marko Bašić, Helena Bilandžija, Igor Boršić, Petra Bregović, Ivan Budinski, Stipe Bušelić, Marijana Cukrov (Franičević), Hrvoje Cvitanović, Tamara Čuković, Andjela Ćukušić, Ester Domina, Tvrko Dražina, Marina Drčelić, Aljoša Duplić, Lana Đud, Dajana Hmura, Ivica Jaklinović, Vatroslav Jakobović, Branko Jalžić, Vedran Jalžić, Lucija Janković-Rapan, Luka Katušić, Fanica Kljaković Gašpić, Marina Kipson, Alen Kirin, Ana Kolarić, Tommy Kolman, Ana Komerički, Petra Kovač Konrad, Ivana Kovačić, Marko Lukić, Marta Malenica, Marin Manger, Neven Matočec, Kazimir Miculinić, Barbara Mikac, Saša Minihofner, Gorana Miščenić, Krešimir Motočić, Dr Jos Notenboom, Mislav Novokmet, Darijan Ozimec, Margita Ozimec, Roman Ozimec, Goran Palijan, Martina Pavlek, Slavko Polak, Gordan Polić, Predrag Rade, Tonći Rađa, Maja Rađenović, Nikolina Raguz, Ilija Rašić, Tomica Rubinić, Dr Rajko Slapnik, S. Šore, Matija Vojnović, Milan Vojinović, Davorin Vraneković, Snježana Vujičić-Karlo, Roko Žaja and Dijana Župan.

And last but not least we thank all speleologists and colleagues from SO PDS Velebit, SO HPD Željezničar, DDISKF, SK Samobor, SK Ursus spelaeus, SU Estavela, SU Spelunka, SO PD Dubovac, SD Karlovac and the Biological Students Society BIUS who organised and co-financed the different speleological camps.

Received May 25, 2010

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S U M M A R Y

Catalogue and atlas of cave-dwelling terrestrial isopods (Crustacea: Oniscidea) from Croatia

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In Croatia 130 species and 30 subspecies of terrestrial isopods have been recorded, 59 species and 17 subspecies of which are endemic to Croatia. Altogether, this paper presents data from 557 caves, 6 artificial underground structures and 15 other epigean and subterranean localities. Among the cave taxa, 35 species and five subspecies have been recorded. The family Trichoniscidae and the subfamily Trichoniscinae are the most abundant (13 (59%) out of 22 Croatian endemic taxa and 17 (85 %) out of 20 troglobiotic taxa). The genus most represented is *Alpioniscus* with 10 species. Only 165 out of 814 Croatian 10 × 10 km UTM squares (~20,3 %) have one or more cave species. The UTM square VL41 presents the maximum with six species, belonging to the Northern Croatian Littoral macroregion. The UTM squares BN62, BN71, XH66, XH69 and YH03 have five species, belonging to the Southern Croatian Littoral macroregion. The Southern Croatian Littoral macroregion has 27 (67,5 %) out of 40 cave taxa in Croatia, and the Northern Croatian Littoral macroregion has 15 (37,5 %). The Southern Croatian Littoral mesoregion has 16 (~72,7 %) out of 22 endemic cave taxa in Croatia and among them, two are widespread and 14 are endemic to that region. Five islands have their own endemic species (eight species). The most widely distributed species in Croatia are the troglobites *Mesoniscus graniger*, *Androniscus roseus*, and the troglobiont *A. stygius* found in three macroregions. Only four troglobiotic species (*Alpioniscus balthasari*, *A. strasseri*, *Titanethes albus* and *T. dahli*) are distributed in two macroregions, the remaining species are distributed only in single macroregions. All the 40 cave-dwelling taxa in Croatia are distributed in the Dinaric karst area, and only three troglobitic species are found also outside this area. No endemic taxa occur outside the Dinaric karst area. In this paper only part of the CBSS collection is listed. The majority of genera need to be revised and many species redescribed. The knowledge about cave terrestrial isopods in Croatia will probably be modified as a result of an extensive taxonomic work which still needs to be done.

APPENDIX 1.

Tab. 43. List of synonyms for locality records of cave-dwelling terrestrial isopods in Croatia with references associated with the recorded locality name.

| Recorded locality name | Present locality name |
|---|--------------------------------|
| Baba pećina (BUTUROVIĆ, 1955c, KARAMAN, 1966) | Baba špilja |
| Balićeva pećina (STROUHAL, 1939a) | Balićeva špilja |
| Balićeva pećina (GIROMETTA, 1913, GIROMETTA, 1914, LANGHOFFER, 1915a, STROUHAL, 1939b, KARAMAN, 1966) | Balićeva špilja |
| Baračeva II (STROUHAL, 1939b) | Gornja Baračeva špilja |
| Baračeva Pećina (STROUHAL, 1939b) | Baračeva špilja |
| Baračeva Pećina I (STROUHAL, 1939b) | Donja Baračeva špilja |
| Baračeva pećina II (LANGHOFFER, 1915a) | Gornja Baračeva špilja |
| Baračeva špilja Mala (OZIMEC, 2003) | Donja Baračeva špilja |
| Baračeva špilja Velika (OZIMEC, 2003) | Gornja Baračeva špilja |
| Bardarovica (FRANKENBERGER, 1938a, KARAMAN, 1966) | Špilja na Bardarovici |
| Barićevića pećina (KARAMAN, 1966) | Barićevića pećina |
| Barilović Špilja (STROUHAL, 1939b) | Vražića špilja |
| Bazdovača (STROUHAL, 1939a, BEDEK et al., 2006) | Bazgovača jama |
| Bazgova jama (BEDEK et al., 2006) | Bazgovača jama |
| BB Nr. 6 (misprint, should be BB Nr. 661) (JALŽIĆ et al., 2010) | Movrica |
| BB Nr. 16 (STROUHAL, 1939b) | Vilenska jama |
| BB Nr. 72 (STROUHAL, 1939a, STROUHAL, 1939c, STROUHAL, 1939e) | Šipun |
| BB Nr. 91 (STROUHAL, 1939a, STROUHAL, 1939e) | Šipun |
| BB Nr. 93 (STROUHAL, 1939a, STROUHAL, 1939e) | Durovića špilja |
| BB Nr. 99 (STROUHAL, 1939a, STROUHAL, 1939e) | Studentski ratac |
| BB Nr. 100 (STROUHAL, 1939a) | Žejava |
| BB Nr. 101 (STROUHAL, 1939a, STROUHAL, 1939c) | Ješkalovica |
| BB Nr. 102 (STROUHAL, 1939a, BEDEK et al., 2006) | Bazgovača jama |
| BB Nr. 105 (STROUHAL, 1939a) | Ledenica na podnožju Jabukovca |
| BB Nr. 108 (STROUHAL, 1939a) | Činjadra |
| BB Nr. 109 (STROUHAL, 1939a) | Dobra jama |
| BB Nr. 116 (STROUHAL, 1939a, STROUHAL, 1939e) | Šipun |
| BB Nr. 146 (STROUHAL, 1939b) | Jezero |
| BB Nr. 158 (STROUHAL, 1939a) | Ostaševica |
| BB Nr. 324 (STROUHAL, 1939a) | Jama kod Radošića |
| BB Nr. 325 (STROUHAL, 1939a, STROUHAL, 1939e) | Jama na Visokoj |
| BB Nr. 326 (STROUHAL, 1939a, STROUHAL, 1939e) | Jama na Balači |
| BB Nr. 327 (STROUHAL, 1939a, STROUHAL, 1939e) | Vršine |
| BB Nr. 329 (STROUHAL, 1939a) | Balićeva špilja |
| BB Nr. 331 (STROUHAL, 1939a, STROUHAL, 1939b) | Smokvica |
| BB Nr. 333 (STROUHAL, 1939a) | Trojama |
| BB Nr. 334 (STROUHAL, 1937, STROUHAL, 1939a, BEDEK et al., 2006) | Vranjača |
| BB Nr. 335 (STROUHAL, 1939a) | Jama na Koštaku |
| BB Nr. 345 (STROUHAL, 1939a) | Jama pod Kragljevcem |
| BB Nr. 351 (STROUHAL, 1939b) | Nove jame |
| BB Nr. 410 (STROUHAL, 1939b) | Veliki |
| BB Nr. 489 (STROUHAL, 1939d, ARCANGELI, 1940) | Cerjanska špilja |

| | |
|--|------------------------------|
| BB Nr. 492 (STROUHAL, 1939b) | Bukovac |
| BB Nr. 494 (STROUHAL, 1939d, ARCANGELI, 1940) | Vindija |
| BB Nr. 502 (STROUHAL, 1939d, ARCANGELI, 1940, BEDEK <i>et al.</i> , 2006) | Velika špilja |
| BB Nr. 503 (STROUHAL, 1939b) | Cerička pećina |
| BB Nr. 508 (STROUHAL, 1939b) | Munjave |
| BB Nr. 511 (STROUHAL, 1939b) | Langhofferova špilja |
| BB Nr. 512 (STROUHAL, 1939b) | Ledenička špilja |
| BB Nr. 520 (STROUHAL, 1939b) | Langhofferova špilja |
| BB Nr. 523 (STROUHAL, 1939b) | Zernogol špilja |
| BB Nr. 526 (STROUHAL, 1939e, ARCANGELI, 1940) | Zdenec pri Ciglaru |
| BB Nr. 527 (STROUHAL, 1939b) | Pustinja |
| BB Nr. 529 (STROUHAL, 1939d) | Zdenec pri Ciglaru |
| BB Nr. 537 (STROUHAL, 1939b) | Vražića špilja |
| BB Nr. 538 (STROUHAL, 1939b) | Vražića špilja |
| BB Nr. 545 (STROUHAL, 1939b) | Ledena špilja |
| BB Nr. 547 (STROUHAL, 1939b) | Mlađenova pećina |
| BB Nr. 550 (STROUHAL, 1939b) | Pustinja |
| BB Nr. 551 (STROUHAL, 1939d, ARCANGELI, 1940, BEDEK <i>et al.</i> , 2006) | Vlaška peć |
| BB Nr. 553 (STROUHAL, 1939b) | Bribirska pećina |
| BB Nr. 556 (STROUHAL, 1939b) | Šupljara |
| BB Nr. 557 (STROUHAL, 1939b) | Gornja Baraćeva špilja |
| BB Nr. 562 (STROUHAL, 1939b) | Šupljara |
| BB Nr. 563 (STROUHAL, 1939b) | Zvirnjak pećina |
| BB Nr. 566 (STROUHAL, 1939b) | Donja Baraćeva špilja |
| BB Nr. 567 (STROUHAL, 1939b) | Ledena špilja |
| BB Nr. 569 (STROUHAL, 1939b) | Kovačevka pećina |
| BB Nr. 570 (STROUHAL, 1939b) | Lokvarka |
| BB Nr. 573 (STROUHAL, 1939b) | Velika pećina |
| BB Nr. 608 (STROUHAL, 1939a) | Balićeva špilja |
| BB Nr. 642 (STROUHAL, 1939a) | Balićeva špilja |
| BB Nr. 643 (STROUHAL, 1939a) | Pećina kod Sinja |
| BB Nr. 644 (STROUHAL, 1939a) | Zimska pećina |
| BB Nr. 645 (STROUHAL, 1939a) | Kitlica jama |
| BB Nr. 646 (STROUHAL, 1939a) | Crvenkuša-Tamnica-Suhi Rumin |
| BB Nr. 652 (STROUHAL, 1939a, STROUHAL, 1939c, STROUHAL, 1939e) | Šipun |
| BB Nr. 653 (STROUHAL, 1939a, STROUHAL, 1939e) | Karle |
| BB Nr. 660 (STROUHAL, 1937, STROUHAL, 1939e, BEDEK <i>et al.</i> , 2006) | Ostaševica |
| BB Nr. 661 (STROUHAL, 1939a, STROUHAL, 1939c, STROUHAL, 1939e, BEDEK <i>et al.</i> , 2006) | Movrica |
| BB Nr. 845 (STROUHAL, 1939a, STROUHAL, 1939c, STROUHAL, 1939e) | Šipun |
| BB Nr. 849 (STROUHAL, 1939b) | Močiljska špilja |
| BB Nr. 972 (STROUHAL, 1939a, STROUHAL, 1939c, STROUHAL, 1939e) | Šipun |
| BB Nr. 1000 (STROUHAL, 1939a) | Gospodska špilja |
| BB Nr. 1011 (STROUHAL, 1939a) | Medića pećina |
| BB Nr. 1014 (STROUHAL, 1939a) | Rudelića špilja |
| BB Nr. 1015 (STROUHAL, 1939a) | Rudelića špilja |
| BB Nr. 1016 (STROUHAL, 1939a) | Baričevića pećina |
| BB Nr. 1018 (STROUHAL, 1939a) | Crnomarkovića pećina |
| BB Nr. 1019 (STROUHAL, 1939a) | Zrilina pećina |

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|---|----------------------------------|
| BB Nr. 1023 (STROUHAL, 1939a) | Kozjak pećina |
| BB Nr. 1024 (STROUHAL, 1939a) | Podbirnjača špilja |
| BB Nr. 1032 (STROUHAL, 1939a, STROUHAL, 1939e) | Džamije |
| BB Nr. 1034 (STROUHAL, 1939a) | Bobija jama |
| BB Nr. 1038 (STROUHAL, 1939a) | Pećina Stojaković |
| BB Nr. 1042 (STROUHAL, 1939a) | Vučković jama |
| BB Nr. 1043 (STROUHAL, 1939a) | Golubinka |
| Bežmek stan (BEDEK et al., 2006) | Bazgovača jama |
| Bijele sige jama (BEDEK, 2007b) | Jama bijele sige |
| Biospeologica balcanica loc. 557 (OZIMEC, 2003) | Gornja Baraćeva špilja |
| Biospeologica balcanica Lok. 549 (OZIMEC, 2003) | Baraćeva špilja |
| Biospeologica balcanica Lok. 554 (OZIMEC, 2003) | Baraćeva špilja |
| Biospeologica balcanica Lok. 566 (OZIMEC, 2003) | Donja Baraćeva špilja |
| Bukova Špilja (STROUHAL, 1939b) | Bukovac |
| Caretova spilja (FRANKENBERGER, 1938b, ARCANGELI, 1939c) | Caretova špilja |
| cave at Mt. Ucka (GOTTSTEIN et al., 2001) | Špilja na Učki |
| cave near village Murvica (GOTTSTEIN MATOČEC et al., 2002) | Špilja kod Murvice |
| caverna presso il convento nelle vicinanze del villaggio Murvica (ARCANGELI, 1939b) | Špilja kod Murvice |
| caverna presso Promontore (ARCANGELI, 1932, 1938, BRIAN, 1938, BEDEK et al., 2006) | Špilja na Gradini kod Premanture |
| caverna presso Rasokatica nella montagna Glava (ARCANGELI, 1939c) | Jakasova špilja |
| caverna sul monte Bugara (ARCANGELI, 1939c) | Špilja na brdu Bugara |
| caves from Racice beside Castelnuovo (today Podgrad) (GIURGINCA, 2009) | Račiška pećina |
| Ceretova spilja (FRANKENBERGER, 1938a, KARAMAN, 1966) | Caretova špilja |
| Cicrusova jama (GIROMETTA, 1914) | Sniježnica pod Ljubljanom |
| Cinjadra (ARCANGELI, 1926, ARCANGELI, 1939b, BEDEK et al., 2006, JALŽIĆ et al., 2010) | Činjadra |
| Činjandra (KARAMAN, 1966, GOTTSTEIN MATOČEC et al., 2002) | Činjadra |
| Čočina jama (BUTUROVIĆ, 1955b, BUTUROVIĆ, 1955c, KARAMAN, 1966) | Čočina jama |
| Daljinhova jama (KARAMAN, 1966) | Damljinhova jama |
| Devizza (BRIAN, 1938, STROUHAL, 1939a) | Denizza |
| Dorfe Murvica (FRANKENBERGER & STROUHAL, 1940) | Špilja kod Murvice |
| Durović jama (STROUHAL, 1939a, STROUHAL, 1939e, ARCANGELI, 1947) | Đurovića špilja |
| Džamija (STROUHAL, 1939e) | Džamije |
| Đurović jama (KARAMAN, 1966) | Đurovića špilja |
| Eishöhle bei Lokve (STILLER, 1911a) | Ledena špilja |
| environs du village de Nerežišće (BEDEK et al., 2006) | Bazgovača jama |
| Golubinjka (GIROMETTA, 1914) | Sniježnica pod Ljubljanom |
| Golubinjka pod Lubljonom (LANGHOFFER, 1915a) | Sniježnica pod Lubljonom |
| Golubinjka pod Ljubljonom (STROUHAL, 1939b) | Sniježnica pod Lubljonom |
| Golubinjka pod malim Kraljevcem (GIROMETTA, 1914) | Jama pod Malim Kraljevcem |
| Golubnjača kod Žegara (BEDEK, 2007a) | Golubnjača |
| Gorane Spiljas (ARCANGELI, 1940) | Velika špilja |
| Gorane špilja (STROUHAL, 1939d, KARAMAN, 1966, BEDEK et al., 2006) | Velika špilja |
| Gospodska pećina (STROUHAL, 1939a, KARAMAN, 1966) | Gospodska špilja |
| Grabčina špilja (KARAMAN, 1966) | Grapčeva špilja |
| Grabčina spilja (FRANKENBERGER, 1938a) | Grapčeva špilja |
| Grčka pećina (FRANKENBERGER, 1938a, KARAMAN, 1966) | Grčka pećina |
| Grotta No. 1637 VG (BEDEK et al., 2006) | Biserujka |

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| Grotte bei Kotluša (FRANKENBERGER, 1939) | Kotluša |
| Grotte beim Dorfe Oštarija (JURINAC, 1888) | Ambarac |
| Grotte beim Dorfe Trschitsch (JURINAC, 1888) | Tržićka špilja |
| grotte de l'ile de Meleda (VANDEL, 1946) | Movrica |
| Grotte de l'ile Veglia (BEDEK <i>et al.</i> , 2006) | Biserujka |
| Grotte près de la ville Trogir (BUTUROVIĆ, 1955a, BEDEK <i>et al.</i> , 2006) | Špilja Sv. Filipa i Jakoba |
| Grotte près de la ville Trogir (BUTUROVIĆ, 1955a) | Špilja od Bilosaja |
| Höhle am fusse des Dinara Gebirges (FRANKENBERGER, 1939) | Kotluša |
| Höhle am Monte Maggiore (WOLF, 1938) | Špilja na Učki |
| Höhle am Mt. Maggiore (SCHMÖLZER, 1965a) | Špilja na Učki |
| Höhle am Mte. Maggiore (FRANKENBERGER & STROUHAL, 1940) | Špilja na Učki |
| Höhle am Ostabhang der Mosor planina (FRANKENBERGER, 1939 FLASAROVÁ, 1967) | Pećina na istočnoj padini Mosor planine |
| Höhle an dem Monte Maggiore (KESSELYÁK, 1931, BEDEK <i>et al.</i> , 2006, JALŽIĆ <i>et al.</i> , 2010) | Špilja na Učki |
| Höhle an der Svilaja Planina (FRANKENBERGER, 1939) | Špilja na Svilaji planini |
| Höhle an der Quelle des Cetina-Flusses (FRANKENBERGER, 1939) | Pećina na izvoru Cetine |
| Höhle auf dem Bugara-Berge (FRANKENBERGER, 1938b) | Špilja na brdu Bugara |
| Höhle auf der Insel Veglia (Krk) (BEDEK <i>et al.</i> , 2006) | Biserujka |
| Höhle auf der Svilaja planina (FRANKENBERGER, 1939) | Pećina na Svilaji planini |
| Höhle auf der Svilaja Planina (FRANKENBERGER, 1940) | Špilja na Svilaji planini |
| Höhle bei Bol (STROUHAL, 1939b) | Jama kod Vidove gore |
| Höhle bei Curzola (BEDEK <i>et al.</i> , 2006) | Pišurka |
| Höhle bei dem Kloster in der Nähe des Dorfes Murvica (FRANKENBERGER, 1938b) | Špilja kod Murvice |
| Höhle bei der Bahnstation Josipdol (STILLER, 1914) | Špilja u Mekoti |
| Höhle bei der Stadt Curzola (BEDEK <i>et al.</i> , 2006) | Pišurka |
| Höhle bei Josipdol (STROUHAL, 1939b) | Špilja u Mekoti |
| Höhle bei Petricevi (KARAMAN, 1966) | Čampari |
| Höhle bei Pola (FRANKENBERGER & STROUHAL, 1940) | Špilja na Gradini kod Premanture |
| Höhle bei Promontore (STROUHAL, 1939a) | Špilja na Gradini kod Premanture |
| Höhle bei Puži (FRANKENBERGER, 1939) | Pećina kod Puži |
| Höhle bei Rasokatica (FRANKENBERGER, 1938b, FRANKENBERGER, 1940, SCHMÖLZER, 1965b, BEDEK <i>et al.</i> , 2006) | Jakasova špilja |
| Höhle bei Sagorje (JURINAC, 1888) | Zagorska peć |
| Höhle bei Sinj (STROUHAL, 1939a) | Pećina kod Sinja |
| Höhle bei Starigrad (STROUHAL, 1939b) | Špilja kod Starigrada |
| Höhle bei Suhu Rumin (ERHARD, 1997) | Suvi Rumin |
| Höhle des Mosor-Gebirges (FRANKENBERGER & STROUHAL, 1940) | Vranjača |
| Höhle, die in der Nähe des Dorfes Kotluša (FRANKENBERGER, 1937) | Kotluša |
| Höhle im weichen Grund (STILLER, 1914, STROUHAL, 1939b) | Špilja u Mekoti |
| Höhle in der Umgebung der Stadt Knin (FRANKENBERGER, 1937) | Kotluša |
| Höhle mit Wasser (FRANKENBERGER, 1937, BEDEK <i>et al.</i> , 2006, JALŽIĆ <i>et al.</i> , 2010) | Kotluša |
| Höhle Namenlos (STILLER, 1914) | Špilja u Mekoti |
| Höhle NO von Sinj (FRANKENBERGER, 1939) | Pećina sjeveroistočno od Sinja |
| Höhle NW. – Kroatiens (FRANKENBERGER & STROUHAL, 1940) | Vlaška peć |
| Höhle von Bivio Beruć (FRANKENBERGER, 1939) | Pećina Bivio Beruća |

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| Höhle von Marija Ružić (FRANKENBERGER, 1939) | Pećina Marije Ružić |
| Höhle von Ozalj (WOLF, 1938) | Ozaljska špilja |
| Höhlen auf der Dinara planina, hauptsächlich ihren westlichen Abhängen; Lok.Nr. 254 (FRANKENBERGER, 1939) | Špilja na Dinari 254 |
| Höhlen auf der Dinara planina, hauptsächlich ihren westlichen Abhängen; Lok.Nr. 256 (FRANKENBERGER, 1939) | Špilja na Dinari 256 |
| Höhlen auf der Dinara planina, hauptsächlich ihren westlichen Abhängen; Lok.Nr. 258 (FRANKENBERGER, 1939) | Špilja na Dinari 258 |
| Höhlen auf der Dinara planina, hauptsächlich ihren westlichen Abhängen; Lok.Nr. 260 (FRANKENBERGER, 1939) | Špilja na Dinari 260 |
| Höhlen bei Bol ... auf das Plateau nach Neresi zu führen ... (WETTSTEIN, 1914) | Jama kod Vidove gore |
| Höhlen bei Milna ... auf dem südlichen Abhange des zwischen den Namen »Lokvice« und »Blisina glavica« (WETTSTEIN, 1914) | Špilja između Lokvica i Blisine glavice |
| Höhlen bei Milna ... die links vom Wege nach S. Guiseppe liegt (WETTSTEIN, 1914) | Špilja između Milne i Sv. Josipa |
| Höhlen von Ivan Stanić und von Franjo Stanić (FRANKENBERGER, 1939) | Pećina Ivana Stanića i Franja Stanić |
| Höhleneingang ... in Nordistrien bei Račiće (BEDEK et al., 2006) | Račiška pećina |
| Jaice (GIURGINCA, 2009) | Jajce |
| Jama na Balači (KARAMAN, 1966) | Jama na Balači |
| Jama pod Koštakom (STROUHAL, 1939a, KARAMAN, 1966) | Jama na Koštaku |
| Jama pod malim Kraljevcom (GIROMETTA, 1914) | Jama pod Malim Kraljevcem |
| Jama za Mahrinacom (FRANKENBERGER, 1938a, STROUHAL, 1939a) | Jama za Mahrincem |
| Jama za Mahrincom (KARAMAN, 1966) | Jama za Mahrincem |
| Ješkalovića jama (KARAMAN, 1966) | Ješkalovica |
| Jezerina Jama (STROUHAL, 1939b) | Jezero |
| Josipdol Ponor (STROUHAL, 1939b) | Munjave |
| Kapacina (KARAMAN, 1966) | Kopačina |
| Karla Gruž (STROUHAL, 1939a, STROUHAL, 1939e, ARCANGELI, 1947, KARAMAN, 1966) | Karle |
| Kerkawasserfällen (VERHOEFF, 1930) | Krka |
| kleine Höhle bei Tonnj (STILLER, 1911b) | Gugečka pećina |
| kleine Höhle bei Tounj (STROUHAL, 1939b) | Gugečka pećina |
| Kolištini (GIROMETTA, 1913) | Koliština |
| Kopacina (FRANKENBERGER, 1938a, STROUHAL, 1939a) | Kopačina |
| Kötlenicehöhle (BEDEK et al., 2006) | Vranjača |
| Kotluška pećina (BEDEK et al., 2006, JALŽIĆ et al., 2010) | Kotluša |
| Kraljeva pećina (GIROMETTA, 1914, STROUHAL, 1939a, KARAMAN, 1966) | Balićeva špilja |
| Krasulja (BEDEK et al., 2006) | Biserujka |
| Ledena Pećina (STROUHAL, 1939b) | Ledenička špilja |
| Ledenica (LANGHOFFER, 1915a, STROUHAL, 1939b) | Ledena špilja |
| Ledenica (GIROMETTA, 1914, LANGHOFFER, 1915a) | Ledenica na podnožju Jabukovca |
| Ledenica am Mosor (STROUHAL, 1939a) | Ledenica na podnožju Jabukovca |
| Ledenica na Mosoru (KARAMAN, 1966) | Ledenica na podnožju Jabukovca |
| Lok. Nr. 250 (FRANKENBERGER, 1939) | Pećina na izvoru Cetine |
| Lok. Nr. 253 (FRANKENBERGER, 1939) | Pećina na Svilaji planini |
| Lok. Nr. 263 (FRANKENBERGER, 1939) | Pećina na istočnoj padini Mosor planine |

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| Lok. Nr. 265 (FRANKENBERGER, 1939) | Pećina sjeveroistočno od Sinja |
| Lokve špilja (STROUHAL, 1939a, STROUHAL, 1939b, KARAMAN, 1966) | Lokvarka |
| Lukina jama (KEROVEC <i>et al.</i> , 1999) | Lukina jama – Trojama |
| Mačkova špilja (BEDEK <i>et al.</i> , 2006) | Velika špilja |
| Mali ora (FRANKENBERGER, 1939) | Škrabuljica |
| Markova spilja (FRANKENBERGER, 1938a, BEDEK <i>et al.</i> , 2006) | Markova špilja |
| Medina pećina (LANGHOFFER, 1912, LANGHOFFER, 1915b, CSKI, 1926, STROUHAL, 1939b) | Medina špilja |
| Medvednica gornja špilja (BEDEK, 2007b) | Medvednica |
| Medvjedica (STROUHAL, 1939b) | Đulin ponor – Medvedica |
| Močilje cave (OZIMEC, 2005) | Močiljska špilja |
| Močilje pećina (STROUHAL, 1939b) | Močiljska špilja |
| Monte Maggiore (ARCANGELI, 1939a; GRUNER & TABACARU, 1963; GIURGINCA, 2009) | Učka |
| Morica pećina (KARAMAN, 1966) | Movrica |
| Mosorgebirge, in einer Höhle (SCHMÖLZER, 1965a) | Vranjča |
| Movriahöhle (BEDEK <i>et al.</i> , 2006, JALŽIĆ <i>et al.</i> , 2010) | Movrica |
| Mračna pećina (REDENŠEK, 1958) | Mračna špilja |
| Mračna pećina (STROUHAL, 1939a, KARAMAN, 1966) | Crvenkuša-Tamnica-Suhi Rumin |
| Mrešnica ponor (STROUHAL, 1939b) | Ambarac |
| Murcica (GOTTSTEIN <i>et al.</i> , 2001) | Špilja kod Murvice |
| Narenta-Grotten (KARAMAN, 1966) | Špilja u dolini Neretve |
| Narenta Grotten (STROUHAL, 1938, FRANKENBERGER & STROUHAL, 1940, BUTUROVIĆ, 1955c) | Špilja u dolini Neretve |
| Omišaljska spilja Bisernica (BEDEK <i>et al.</i> , 2006) | Biserujka |
| Ostasevica (GOTTSTEIN <i>et al.</i> , 2001) | Ostaševica |
| Otaševica (KARAMAN, 1966) | Otaševica |
| Oteš (LANGHOFFER, 1912) | Oteška pećina |
| Ozaljska pećina (CSKI, 1926) | Ozaljska špilja |
| Paganetijeva pećina (KARAMAN, 1966) | Pišurka |
| Paganetijeva špilja (KARAMAN, 1966, BEDEK <i>et al.</i> , 2006) | Pišurka |
| Paganetti (VERHOEFF, 1931a, VERHOEFF, 1931b, FRANKENBERGER, 1938a, STROUHAL, 1938, STROUHAL, 1939a, FRANKENBERGER & STROUHAL, 1940, ARCANGELI, 1947, ARGANO <i>et al.</i> , 1982, SCHMIDT & LEISTIKOW, 2004, BEDEK <i>et al.</i> , 2006) | Pišurka |
| Paganettijeva pećina (FRANKENBERGER, 1938a, BEDEK <i>et al.</i> , 2006) | Pišurka |
| Pećina iznad Opatije (KARAMAN, 1966) | Blaževa jama |
| Pećina iznad Opatije (KARAMAN, 1966) | Pećina Ivana Stanića i Franja Stanić |
| pećina kod Murcice (KARAMAN, 1966) | Špilja kod Murvice |
| Pećina kod Nebljusa (BUTUROVIĆ, 1963) | Krčevina |
| Pećina kod Ozlja (LANGHOFFER, 1912) | Ozaljska špilja |
| pećina kod Petrićevi (KARAMAN, 1966) | Čampari |
| pećina kod Pule (KARAMAN, 1966) | Špilja na Gradini kod Premanture |
| pećina kod Rosokatice na brdu Glava (KARAMAN, 1966) | Jakasova špilja |
| pećina kod s. Kotluša (KARAMAN, 1966) | Kotluša |
| pećina kod samostana u samom Trogiru (HADŽI, 1933) | Špilja od Bilosoja |
| pećina kod Tržića (LANGHOFFER, 1912) | Tržićka špilja |
| pećina kod Zagorja (LANGHOFFER, 1912) | Zagorska peć |

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| pećina na sjeveroistočnoj padini Biokova (KARAMAN, 1966) | Pećina na sjeveroistočnim padinama Biokova |
| pećina na Sridnjoj Gori (KARAMAN, 1966) | Pećina u Sridnjoj gori |
| pećina na Svilaji planini (KARAMAN, 1966, BEDEK et al., 2006) | Špilja na Svilaji planini |
| pećina na Učki (KARAMAN, 1966) | Špilja na Učki |
| pećina: Sv. Filipa i Jakoba (HADŽI, 1933) | Špilja Sv. Filipa i Jakoba |
| Piccola caverna sul Monte Maggiore (ARCANGELI, 1938) | Špilja na Učki |
| Pisuska (STROUHAL, 1938) | Pišurka |
| pit near Pula (GOTTSTEIN et al., 2001) | Špilja na Gradini kod Premanture |
| Pit 3 near Banina Stream (KARAMAN et al., 2009, JALŽIĆ et al., 2010) | Jama kod potoka Banine 3 |
| podzemni hod (JURINAC, 1886) | Ambarac |
| Ponor Mrežnice (JURINAC, 1886) | Ambarac |
| Porta Madonna (WOLF, 1938) | Porto Madonna |
| Promontore (WOLF, 1938, FRANKENBERGER & STROUHAL, 1940, KARAMAN, 1966) | Špilja na Gradini kod Premanture |
| Pusi oberhalb Abbazia (FRANKENBERGER & STROUHAL, 1940) | Pećina kod Puži |
| Rasokatica im Gebirge Glava (FRANKENBERGER & STROUHAL, 1940) | Jakasova špilja |
| Razgovača špilja (KARAMAN, 1966) | Bazgovača jama |
| Razgovača špilja (FRANKENBERGER, 1938a) | Bazgovača jama |
| Razgovača špilja (BEDEK et al., 2006) | Bazgovača jama |
| Repnjak (LANGHOFFER, 1915a, STROUHAL, 1939d, ARCANGELI, 1940, KARAMAN, 1966) | Cerjanska špilja |
| Ročka špilja (OZIMEC et al., 2011b) | Rabakova špilja |
| Rudelića pećina (KARAMAN, 1966) | Rudelića špilja |
| Rudelića Pećina N. I (STROUHAL, 1939a) | Rudelića špilja |
| Rudelića Pećina N. II (STROUHAL, 1939a) | Rudelića špilja |
| Sinjandra (GOTTSTEIN et al., 2001) | Činjadra |
| Sipun Aeskulapgrotte (VANDEL, 1955) | Šipun |
| Sitvuki barlang (LANGHOFFER, 1915b) | Sitvukova pećina |
| Sitvuki pećina (CSIKI, 1926, STROUHAL, 1939b) | Sitvukova pećina |
| Skocmen Spiljas (ARCANGELI, 1940) | Zdenec pri Ciglaru |
| Skočmen (LANDHOFFER, 1915a; KARAMAN, 1966) | Zdenec pri Ciglaru |
| Smrdeća pećina (REDENŠEK, 1958) | Crna pećina |
| Spela (KARAMAN, 1966) | Spila 1 |
| Spila (BUTUROVIĆ, 1955c) | Spila 1 |
| Spila Gjurgjevica (OZIMEC, 2004) | Samograd |
| Spilja Bezimena (STILLER, 1914) | Špilja u Mekoti |
| Spilja kod Rasokatice (FRANKENBERGER, 1938a) | Jakasova špilja |
| Spilja na Smokovniku (UBIC & OZIMEC, 2005) | Špilja pod Kapelu |
| Spilja pod Humom (FRANKENBERGER, 1938a) | Špilja pod Humom |
| Spilja pod Vrhom (FRANKENBERGER, 1938a, STROUHAL, 1939a) | Špilja pod Vrhom |
| Spilja pri Nerznom Dolu (FRANKENBERGER, 1938a, STROUHAL, 1939a, ARCANGELI, 1947) | Špilja kod Nerezinog dola |
| Spilja pri Smokovniku (UBIC & OZIMEC, 2005) | Špilja pod Kapelu |
| Spisurća jama (BEDEK et al., 2006) | Pišurka |
| Spisurska spilja (BEDEK et al., 2006) | Pišurka |
| Svečara (STROUHAL, 1939b) | Zvečara |
| Svilanska jama (BEDEK et al., 2006) | Biserujka |
| Špilja Bezimena bei Košare (STROUHAL, 1939b) | Špilja u Mekoti |

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| Špilja kod Oštarije ogulinske (JURINAC, 1886) | Ambarac |
| Špilja kod Premanture (BEDEK <i>et al.</i> , 2006) | Špilja na Gradini kod Premanture |
| Špilja kod Račica (BEDEK <i>et al.</i> , 2006) | Račiška pećina |
| Špilja kod Rasohatice (KARAMAN, 1966, BEDEK <i>et al.</i> , 2006) | Jakasova špilja |
| Špilja kod Trogira (KARAMAN, 1966, BEDEK <i>et al.</i> , 2006) | Špilja Sv. Filipa i Jakoba |
| Špilja kod Trogira (KARAMAN, 1966) | Špilja od Bilosaja |
| Špilja kod V. Rasoke (BEDEK <i>et al.</i> , 2006) | Jakasova špilja |
| špilja Močilje (OZIMEC, 2005) | Močiljska špilja |
| Špilja na izvoru Mrežnice (JURINAC, 1886) | Zagorska peć |
| špilja pri Nereznom dolu (KARAMAN, 1966) | Špilja kod Nerezinog dola |
| Tabaina spilja (FRANKENBERGER, 1938a, FRANKENBERGER, 1938b, ARCANGELI, 1939c, FRANKENBERGER & STROUHAL, 1940, KARAMAN, 1966, BEDEK <i>et al.</i> , 2006) | Tabaina špilja |
| tamnik (JURINAC, 1886) | Ambarac |
| Trimbušova pećina (REDENŠEK, 1958) | Crna pećina |
| Tržić pećina (CSIKI, E., 1926, STROUHAL, 1939b) | Tržička špilja |
| Tržiči barlang (LANGHOFFER, 1912) | Tržička špilja |
| unnamed small cave at Mt. Maggiore (SCHMIDT & LEISTIKOW, 2004) | Špilja na Učki |
| Velika peć (BUTUROVIĆ, 1955c, KARAMAN, 1966) | Velika špilja |
| Velika pećina (BEDEK <i>et al.</i> , 2006, JALŽIĆ <i>et al.</i> , 2010) | Kotluša |
| Velika pećina (BEDEK <i>et al.</i> , 2006) | Velika špilja |
| Velika pećina kod Velikih Goranaca (LANGHOFFER, 1915a) | Velika špilja |
| Velika Spilja (FRANKENBERGER, 1938a, FRANKENBERGER, 1938b, STROUHAL, 1939a, ARCANGELI, 1947) | Velika špilja |
| Velika spilja (ARCANGELI, 1939c) | Velika špilja |
| Vile Jezerkinje (REDENŠEK, 1958) | Crna pećina |
| Vilina pećina (BUTUROVIĆ, 1955b, KARAMAN, 1966) | Vilina špilja – Ombla |
| Vindia Spiljas (ARCANGELI, 1940) | Vindija |
| Vindia špilja (STROUHAL, 1939d, KARAMAN, 1966) | Vindija |
| Viteziceva pecina (GOTTSTEIN <i>et al.</i> , 2001) | Biserujka |
| Vitezičeva pećina (POTOČNIK, 1983, BEDEK <i>et al.</i> , 2006) | Biserujka |
| Vitezičova jama (BEDEK <i>et al.</i> , 2006) | Biserujka |
| Vitezica špilja (BEDEK <i>et al.</i> , 2006) | Biserujka |
| Viteziceva pećina (GOTTSTEIN MATOČEC <i>et al.</i> , 2002) | Biserujka |
| Vlaška pecina (ARCANGELI, 1940, GOTTSTEIN <i>et al.</i> , 2001) | Vlaška peć |
| Vlaška Pećina bei Zengg zwischen Kozica und Smokvica (BEDEK <i>et al.</i> , 2006) | Vlaška peć |
| Vlaška pećina (STROUHAL, 1939d, KARAMAN, 1966, VUJIČIĆ-KARLO & RADA, 2004, BEDEK <i>et al.</i> , 2006) | Vlaška peć |
| Vlaška špilja (BEDEK <i>et al.</i> , 2006) | Vlaška peć |
| Vodena jama (JURINAC, 1886, LANGHOFFER, 1912, LANGHOFFER, 1915b, CSIKI, 1926, STROUHAL, 1939b) | Ambarac |
| Vražić-pećina (LANGHOFFER, 1915a) | Vražića špilja |
| Vrlovkahöhle (STROUHAL, 1939b) | Vrlovka |
| Zagorje pećina (CSIKI, 1926, STROUHAL, 1939b) | Zagorska peć |
| Zagorska peć (VUJIČIĆ-KARLO & RADA, 2004) | Vlaška peć |
| Zala (JALŽIĆ & BOŽIĆEVIĆ, 1975) | Mikašinovića špilja |
| Zejava (STROUHAL, 1939a, KARAMAN, 1966) | Žejava |
| Zrinski rudnici (BEDEK, 2007b) | Rudnik Zrinski |

APPENDIX 2.

Tab. 44. Collection records

| Croatian Biospeleological Society (CBSS) collection | |
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| CBSS collection 1 | M. Lukić, 05.12.2008. |
| CBSS collection 2 | J. Bedek, 24.01.2004. |
| CBSS collection 3 | H. Bilandžija, 04.12.2004. |
| CBSS collection 4 | R. Ozimec, 04.12.1994.; 29.10.2000.; J. Bedek, I. Boršić, R. Ozimec, 14.07.2001.; I. Boršić, 07.10.2001.; M. Lukić, 23.02.2003.; R. Ozimec, 26.02.2003.; M. Lukić, 21.04.2003.; 15.06.2003.; 07.11.2003.; J. Bedek, M. Lukić, 12.11.2003.; M. Lukić, R. Ozimec, 28.12.2003.; M. Pavlek, 13.05.2004.; J. Bedek, 04.12.2004.; M. Lukić, 22.12.2004.; J. Bedek, 16.01.2005.; H. Bilandžija, 26.02.2005.; R. Ozimec, 04.11.2006. |
| CBSS collection 5 | J. Bedek, 16.04.2005. |
| CBSS collection 6 | J. Bedek, 22.05.2005. |
| CBSS collection 7 | H. Bilandžija, 14.06.2004. |
| CBSS collection 8 | H. Bilandžija, 20.03.2005. |
| CBSS collection 9 | R. Ozimec, 11.05.2008. |
| CBSS collection 10 | R. Ozimec, P. Rade, 27.02.2009. |
| CBSS collection 11 | J. Bedek, 18.07.2004. |
| CBSS collection 12 | H. Cvitanović, 20.04.2006. |
| CBSS collection 13 | P. Rade, 20.04.2006. |
| CBSS collection 14 | M. Pavlek, 23.04.2006. |
| CBSS collection 15 | M. Lukić, 27.10.2008. |
| CBSS collection 16 | M. Lukić, 25.10.2008. |
| CBSS collection 17 | M. Pavlek, 21.04.2006.; R. Ozimec, H. Cvitanović, 25.10.2008. |
| CBSS collection 18 | M. Lukić, 23.09.2010. |
| CBSS collection 19 | A. Komericki, 22.09.2010. |
| CBSS collection 20 | L. Katušić, 13.05.2006. |
| CBSS collection 21 | R. Ozimec, M. Pavlek, 27.05.2007.; J. Bedek, 01.11.2007.; F. Kljaković Gašpić, 13.05.2008. |
| CBSS collection 22 | R. Ozimec, 27.05.2007. |
| CBSS collection 23 | F. Kljaković Gašpić, R. Ozimec, P. Rade, 28.05.2007. |
| CBSS collection 24 | R. Ozimec, 16.05.2006., 13.10.2006.; H. Cvitanović, R. Ozimec, 16.10.2006.; R. Ozimec, 04.11.2007. |
| CBSS collection 25 | H. Bilandžija, L. Katušić, R. Ozimec, M. Pavlek, 14.05.2006.; P. Bregović, L. Katušić, A. Kolarić, P. Rade, 15.10.2006. |
| CBSS collection 26 | H. Cvitanović, 03.05.2006.; H. Cvitanović, R. Ozimec, 14.10.2006. |
| CBSS collection 27 | R. Ozimec, 16.11.2007. |
| CBSS collection 28 | R. Ozimec, 12.05.2008.; H. Cvitanović, E. Domina, M. Lukić, R. Ozimec, 17.10.2008.; A. Komericki, 20.05.2009. |
| CBSS collection 29 | P. Rade, 14.10.2008. |
| CBSS collection 30 | R. Ozimec, 29.08.1993.; J. Bedek, 10.02.2002.; H. Bilandžija, R. Ozimec, M. Pavlek, 15.05.2006.; R. Ozimec, M. Pavlek, 27.05.2007.; H. Cvitanović, 02.11.2007.; E. Domina, 16.10.2008. |
| CBSS collection 31 | R. Ozimec, P. Rade, 15.10.2006. |
| CBSS collection 32 | H. Bilandžija, 14.05.2006. |
| CBSS collection 33 | H. Cvitanović, P. Rade, 14.10.2006. |

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| CBSS collection 34 | R. Ozimec, 03.11.2007. |
| CBSS collection 35 | P. Bregović, R. Ozimec, 04.11.2007. |
| CBSS collection 36 | R. Ozimec, M. Pavlek, 17.05.2006. |
| CBSS collection 37 | H. Cvitanović, R. Ozimec, 26.05.2007.; E. Domina, P. Rade, 18.10.2008. |
| CBSS collection 38 | R. Ozimec, 25.05.2007. |
| CBSS collection 39 | H. Cvitanović, R. Ozimec, 25.05.2007. |
| CBSS collection 40 | H. Cvitanović, 17.10.2008.; R. Ozimec, P. Rade, 18.05.2009. |
| CBSS collection 41 | P. Bregović, 17.10.2009. |
| CBSS collection 42 | M. Lukić, 27.04.2009. |
| CBSS collection 43 | J. Bedek, P. Bregović, 29.04.2009. |
| CBSS collection 44 | H. Cvitanović, 28.04.2009. |
| CBSS collection 45 | A. Komericčki, 29.04.2009. |
| CBSS collection 46 | J. Bedek, 05.03.2011. |
| CBSS collection 47 | J. Bedek, 24.04.2009. |
| CBSS collection 48 | M. Lukić, 24.06.2009. |
| CBSS collection 49 | J. Bedek, 12.07.2005. |
| CBSS collection 50 | R. Ozimec, 08.09.2009. |
| CBSS collection 51 | J. Bedek, 06.12.2008.; J. Bedek, A. Kirin, 10.05.2009. |
| CBSS collection 52 | H. Bilandžija, 15.06.2008. |
| CBSS collection 53 | A. Kirin, 05.12.2009. |
| CBSS collection 54 | M. Pavlek, 22.06.2008. |
| CBSS collection 55 | J. Bedek, H. Cvitanović, 20.06.2008.; J. Bedek, 12.05.2009. |
| CBSS collection 56 | H. Cvitanović, R. Ozimec, 17.02.1999.; R. Ozimec, 27.02.2000.; J. Bedek, 16.02.2003.; H. Cvitanović, 18.06.2008.; H. Cvitanović, 08.12.2008.; M. Lukić, 14.05.2009. |
| CBSS collection 57 | H. Cvitanović, K. Miculinić, 22.06.2008. |
| CBSS collection 58 | A. Kirin, 14.05.2009. |
| CBSS collection 59 | J. Bedek, 20.06.2008.; K. Miculinić, 09.05.2009. |
| CBSS collection 60 | J. Bedek, 09.05.2009.; A. Kirin, M. Lukić, 13.05.2009. |
| CBSS collection 61 | R. Ozimec, 19.07.1998. |
| CBSS collection 62 | T. Rubinić, 29.11.2003. |
| CBSS collection 63 | J. Bedek, 30.11.2002. |
| CBSS collection 64 | T. Dražina, M. Pavlek, 24.08.2008.; R. Ozimec, 26.08.2008.; M. Lukić, 15.05.2009.; M. Pavlek, 24.05.2009. |
| CBSS collection 65 | H. Bilandžija, 14.06.2008.; M. Lukić, 05.12.2008. |
| CBSS collection 66 | R. Ozimec, T. Rubinić, 03.11.2002. |
| CBSS collection 67 | R. Ozimec, 08.02.2009. |
| CBSS collection 68 | R. Ozimec, 26.02.2009.; K. Miculinić, 06.06.2009.; J. Bedek, 17.09.2009. |
| CBSS collection 69 | I. Rašić, 07.12.2002. |
| CBSS collection 70 | T. Rubinić, 29.09.2002. |
| CBSS collection 71 | R. Ozimec, 21.12.2003. |
| CBSS collection 72 | M. Pavlek, 04.12.2004. |
| CBSS collection 73 | R. Ozimec, 13.04.2008. |
| CBSS collection 74 | J. Bedek, M. Pavlek, 07.11.2006. |
| CBSS collection 75 | D. Hmura, 16.09.2007. |
| CBSS collection 76 | M. Pavlek, 25.07.2006. |
| CBSS collection 77 | M. Pavlek, 25.07.2006. |

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| CBSS collection 78 | D. Hmura, 17.09.2007. |
| CBSS collection 79 | P. Bregović, 17.09.2007. |
| CBSS collection 80 | M. Pavlek, 17.09.2007. |
| CBSS collection 81 | P. Bregović, 14.09.2007. |
| CBSS collection 82 | H. Bilandžija, 25.04.2009. |
| CBSS collection 83 | H. Cvitanović, 06.11.2006. |
| CBSS collection 84 | H. Bilandžija, 23.07.2006. |
| CBSS collection 85 | M. Pavlek, 06.11.2006. |
| CBSS collection 86 | P. Bregović, 28.06.2009. |
| CBSS collection 87 | M. Pavlek, 22.04.2009. |
| CBSS collection 88 | M. Pavlek, 26.04.2009. |
| CBSS collection 89 | P. Bregović, 21.04.2009. |
| CBSS collection 90 | J. Bedek, 08.09.2009. |
| CBSS collection 91 | J. Bedek, M. Lukić, 05.09.2009. |
| CBSS collection 92 | A. Kirin, 14.05.2009. |
| CBSS collection 93 | A. Komericki, K. Miculinić, 14.05.2009. |
| CBSS collection 94 | J. Bedek, 14.05.2009. |
| CBSS collection 95 | J. Bedek, M. Lukić, 27.08.2008.; J. Bedek, 14.02.2009.; R. Ozimec, 12.05.2009. |
| CBSS collection 96 | M. Pavlek, 11.06.2004.; R. Ozimec, 07.09.2009. |
| CBSS collection 97 | J. Bedek, M. Lukić, 17.04.2004. |
| CBSS collection 98 | M. Pavlek, 11.06.2004. |
| CBSS collection 99 | R. Ozimec, 17.06.2008. |
| CBSS collection 100 | R. Ozimec, 17.06.2008.; J. Bedek, 05.12.2008.; R. Baković, H. Bilandžija, 10.05.2009.; A. Komericki, R. Ozimec, 13.05.2009. |
| CBSS collection 101 | K. Miculinić, 19.06.2008. |
| CBSS collection 102 | H. Bilandžija, 17.06.2008. |
| CBSS collection 103 | J. Bedek, H. Cvitanović, 27.08.2004. |
| CBSS collection 104 | A. Komericki, 14.05.2009.; P. Kovač Konrad, 02.12.2009. |
| CBSS collection 105 | J. Bedek, 06.12.2008.; J. Bedek, A. Kirin, 10.05.2009. |
| CBSS collection 106 | R. Ozimec, 22.02.1998., 11.11.1998.; M. Lukić, 12.02.2009. |
| CBSS collection 107 | R. Ozimec, 30.03.2004. |
| CBSS collection 108 | J. Bedek, M. Kipson, 15.06.2008.; H. Cvitanović, 12.09.2009. |
| CBSS collection 109 | M. Lukić, 25.08.2008. |
| CBSS collection 110 | M. Lukić, 15.06.2008.; A. Kirin, 13.05.2009. |
| CBSS collection 111 | M. Pavlek, 20.06.2008. |
| CBSS collection 112 | M. Lukić, 16.06.2008. |
| CBSS collection 113 | M. Lukić, 26.08.2008. |
| CBSS collection 114 | M. Pavlek, 21.06.2008. |
| CBSS collection 115 | J. Bedek, M. Lukić, R. Ozimec, 18.06.2008.; A. Komericki 12.05.2009.; J. Bedek, M. Lukić, 23.05.2009. |
| CBSS collection 116 | M. Pavlek, 20.06.2008.; A. Kirin, 13.05.2009. |
| CBSS collection 117 | M. Lukić, 17.06.2008. |
| CBSS collection 118 | J. Bedek, 22.06.2008. |
| CBSS collection 119 | R. Baković, 21.06.2008.; M. Pavlek, 24.08.2008.; R. Ozimec, 26.08.2008. |
| CBSS collection 120 | J. Bedek, 19.03.2009., 17.09.2009. |
| CBSS collection 121 | I. Kovačić, B. Mikac, G. Palijan, R. Žaja, 28.06.1999. |

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| CBSS collection 122 | R. Ozimec, 07.01.2000. |
| CBSS collection 123 | R. Ozimec, 10.01.2000. |
| CBSS collection 124 | R. Ozimec, 09.01.2000. |
| CBSS collection 125 | R. Ozimec, 09.01.2000. |
| CBSS collection 126 | H. Bilandžija, 20.10.2007. |
| CBSS collection 127 | M. Pavlek, 01.10.2007., H. Bilandžija, 01.01.2010. |
| CBSS collection 128 | J. Bedek, 31.10.2002.; 28.06.2003.; I. Jaklinović, M. Lukić, R. Ozimec, 31.10.2003.; M. Lukić, 26.03.2004.; R. Ozimec, 27.05.2004.; M. Franičević, 28.06.2004.; J. Bedek, 22.08.2005. |
| CBSS collection 129 | I. Jaklinović, R. Ozimec, 02.10.2007.; P. Bregović, 03.03.2008.; H. Cvitanović, 04.03.2008. |
| CBSS collection 130 | D. Hmura, I. Jaklinović, M. Manger, R. Ozimec, 30.09.2007.; L. Đud, 02.03.2008.; P. Bregović, T. Čuković, D. Hmura, 04.03.2008. |
| CBSS collection 131 | R. Ozimec, M. Manger, M. Drčelić, 03.03.2008. |
| CBSS collection 132 | H. Bilandžija, P. Bregović, D. Hmura, I. Jaklinović, M. Lukić, M. Manger, 28.09.2007.; M. Manger, M. Lukić, 02.10.2007.; P. Bregović, H. Cvitanović, N. Raguž, 02.03.2008. |
| CBSS collection 133 | H. Bilandžija, D. Hmura, 29.09.2007.; L. Đud, N. Raguž, 03.03.2008. |
| CBSS collection 134 | M. Pavlek, 03.10.2007. |
| CBSS collection 135 | J. Bedek, 26.04.2004. |
| CBSS collection 136 | R. Ozimec, 01.09.1995.; S. Gottstein, R. Ozimec, M. Vojinović, 04.06.2000.; H. Bilandžija, R. Ozimec, M. Pavlek, 26.04.2004.; H. Bilandžija, P. Bregović, M. Pavlek, 30.09.2007. |
| CBSS collection 137 | S. Gottstein, N. Matočec, R. Ozimec, 03.06.2000.; R. Ozimec, 25.04.2004. |
| CBSS collection 138 | J. Bedek, R. Ozimec, M. Pavlek, 25.04.2004.; |
| CBSS collection 139 | S. Gottstein, N. Matočec, R. Ozimec, M. Vojinović, 02.06.2000.; H. Bilandžija, R. Ozimec, M. Pavlek, 23.04.2004.; H. Bilandžija, P. Bregović, M. Pavlek, 01.10.2007.; D. Ozimec, Mat. Vojinović, 26.12.2009. |
| CBSS collection 140 | M. Pavlek, 29.04.2008. |
| CBSS collection 141 | B. Jalžić, 09.04.2007. |
| CBSS collection 142 | M. Pavlek, 09.04.2007.; 13.04.2007. |
| CBSS collection 143 | J. Bedek, I. Boršić, T. Dražina, 16.06.2001.; J. Bedek, 21.06.2001.; H. Cvitanović, M. Pavlek, 07.04.2007. |
| CBSS collection 144 | J. Bedek, I. Boršić, T. Dražina, 18.06.2001.; H. Cvitanović, M. Pavlek, 11.04.2007. |
| CBSS collection 145 | J. Bedek, 03.05.2008. |
| CBSS collection 146 | J. Bedek, I. Boršić, T. Dražina, 19.06.2001. |
| CBSS collection 147 | J. Bedek, 17.06.2001.; J. Bedek, H. Bilandžija, M. Pavlek, 08.04.2007. |
| CBSS collection 148 | J. Bedek, I. Boršić, T. Dražina, 17.06.2001.; M. Pavlek, 08.04.2007.; J. Bedek, 28.04.2008. |
| CBSS collection 149 | M. Pavlek, 07.04.2007. |
| CBSS collection 150 | M. Pavlek, 02.05.2008. |
| CBSS collection 151 | H. Bilandžija, 30.04.2008. |
| CBSS collection 152 | M. Pavlek, 01.05.2008. |
| CBSS collection 153 | J. Bedek, M. Lukić, 04.08.2006. |
| CBSS collection 154 | H. Bilandžija, M. Lukić, M. Pavlek, 02.08.2005.; H. Bilandžija, 28.09.2006. |
| CBSS collection 155 | J. Bedek, M. Lukić, 21.07.2005. |
| CBSS collection 156 | J. Bedek, R. Ozimec, 06.01.2005. |
| CBSS collection 157 | H. Bilandžija, 06.01.2005. |

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| CBSS collection 158 | J. Bedek, M. Pavlek, 09.01.2005. |
| CBSS collection 159 | J. Bedek, M. Lukić, M. Pavlek, 01.08.2006. |
| CBSS collection 160 | R. Slapnik, 09.01.2005. |
| CBSS collection 161 | M. Lukić, 12.10.2003.; H. Bilandžija, R. Ozimec, 08.01.2005. |
| CBSS collection 162 | H. Bilandžija, R. Ozimec, M. Pavlek, 08.01.2005. |
| CBSS collection 163 | J. Bedek, M. Pavlek, 08.01.2005. |
| CBSS collection 164 | M. Franičević, 08.12.2004. |
| CBSS collection 165 | M. Lukić, S. Minihofner, 28.07.2006.; I. Jaklinović, R. Ozimec, 01.08.2006. |
| CBSS collection 166 | J. Bedek, 30.01.2002.; J. Bedek, M. Lukić, 29.03.2005. |
| CBSS collection 167 | R. Ozimec, 07.01.2005. |
| CBSS collection 168 | J. Bedek, 30.01.2002.; M. Franičević, 08.01.2005. |
| CBSS collection 169 | J. Bedek, R. Ozimec, 07.01.2005. |
| CBSS collection 170 | H. Bilandžija, M. Pavlek, 05.06.2006. |
| CBSS collection 171 | R. Ozimec, 12.08.1998.; T. Rubinić, 13.06.1999.; J. Bedek, I. Kovačić, B. Mikac, G. Palijan, R. Žaja, 03.07.1999.; H. Bilandžija, 07.06.2006.; M. Drčelić, L. Đud, D. Hmura, 01.10.2008. |
| CBSS collection 172 | T. Dražina, 10.06.2006. |
| CBSS collection 173 | J. Bedek, 12.09.2006. |
| CBSS collection 174 | P. Rade, 12.09.2006. |
| CBSS collection 175 | M. Pavlek, 09.06.2006. |
| CBSS collection 176 | H. Bilandžija, 09.06.2006. |
| CBSS collection 177 | M. Pavlek, 03.08.2006.; J. Bedek, 16.08.2006. |
| CBSS collection 178 | J. Bedek, 16.06.2002. |
| CBSS collection 179 | J. Bedek, 03.04.2006.; R. Ozimec, 25.08.2010. |
| CBSS collection 180 | S. Bušelić, R. Ozimec, 15.05.2000. |
| CBSS collection 181 | S. Bušelić, R. Ozimec, 15.05.2000.; R. Ozimec, 21.06.2002. |
| CBSS collection 182 | R. Ozimec, 28.04.2002.; J. Bedek, 15.06.2002. |
| CBSS collection 183 | V. Jalžić, 16.10.2002.; J. Bedek, H. Cvitanović, 03.04.2006. |
| CBSS collection 184 | R. Ozimec, 21.03.2004.; H. Cvitanović, 17.11.2005. |
| CBSS collection 185 | H. Cvitanović, 25.05.2004.; H. Bilandžija, 04.04.2006. |
| CBSS collection 186 | R. Ozimec, 25.03.2003. |
| CBSS collection 187 | R. Ozimec, 17.06.2002. |
| CBSS collection 188 | J. Bedek, V. Jalžić, M. Lukić, R. Ozimec, 25.03.2003. |
| CBSS collection 189 | J. Bedek, M. Lukić, R. Ozimec, 17.10.2002. |
| CBSS collection 190 | J. Bedek, 25.06.2002.; R. Ozimec, 18.11.2005. |
| CBSS collection 191 | R. Ozimec, 14.10.2002.; H. Bilandžija, M. Lukić, 02.04.2006. |
| CBSS collection 192 | M. Lukić, 27.10.2003. |
| CBSS collection 193 | H. Bilandžija, 19.11.2005. |
| CBSS collection 194 | J. Bedek, R. Ozimec, 26.03.2003.; J. Bedek, M. Lukić, 23.03.2004.; R. Ozimec, 17.05.2010. |
| CBSS collection 195 | R. Ozimec, 27.10.2003. |
| CBSS collection 196 | R. Ozimec, 27.10.2003. |
| CBSS collection 197 | M. Lukić, R. Ozimec, 17.06.2002.; J. Bedek, H. Cvitanović, R. Ozimec, M. Pavlek, 28.10.2006.; R. Ozimec, 06.11.2009. |
| CBSS collection 198 | M. Franičević, 02.07.2000. |
| CBSS collection 199 | B. Jalžić, F. Kljaković Gašpić, 01.05.2009. |
| CBSS collection 200 | H. Bilandžija, R. Ozimec, M. Pavlek, 21.08.2004.; M. Pavlek, 26.07.2008.; H. Bilandžija, 14.08.2009. |

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| CBSS collection 201 | H. Cvitanović, 13.10.2007. |
| CBSS collection 202 | M. Pavlek, 22.08.2004. |
| CBSS collection 203 | B. Jalžić, 18.08.2004. |
| CBSS collection 204 | H. Bilandžija, M. Pavlek, 21.08.2004.; A. Duplić, 27.05.2008. |
| CBSS collection 205 | M. Pavlek, 22.08.2004. |
| CBSS collection 206 | H. Bilandžija, 01.08.2009. |
| CBSS collection 207 | J. Bedek, 31.01.2002.; M. Bašić, D. Vraneković, 27.07.2007.; M. Lukić, 28.07.2007. |
| CBSS collection 208 | A. Kirin, 29.07.2007. |
| CBSS collection 209 | H. Bilandžija, 30.07.2007. |
| CBSS collection 210 | T. Rubinić, 24.-25.07.2007.; J. Bedek, 28.07.2007. |
| CBSS collection 211 | A. Kirin, T. Rubinić, 30.07.2007. |
| CBSS collection 212 | A. Kirin, 04.08.2009. |
| CBSS collection 213 | A. Kirin, 28.06.2009. |
| CBSS collection 214 | T. Rubinić, 22.07.2007.; M. Lukić, 29.07.2007. |
| CBSS collection 215 | M. Franičević, 26.01.1997.; J. Bedek, 31.01.2002.; M. Pavlek, 04.02.2006.; M. Pavlek, N. Raguž, 30.07.2007. |
| CBSS collection 216 | A. Kirin, 27.06.2009. |
| CBSS collection 217 | M. Pavlek, 17.08.2005. |
| CBSS collection 218 | I. Jaklinović, M. Lukić, 26.10.2003. |
| CBSS collection 219 | J. Bedek, 29.06.2002.; R. Ozimec, 23.03.2003., 08.11.2009. |
| CBSS collection 220 | J. Bedek, 22.03.2004. |
| CBSS collection 221 | I. Jaklinović, M. Lukić, R. Ozimec, 28.10.2003.; M. Pavlek, 24.03.2004.; M. Lukić, 01.04.2006. |
| CBSS collection 222 | M. Lukić, 25.10.2003. |
| CBSS collection 223 | J. Bedek, 28.10.2003.; 26.10.2006. |
| CBSS collection 224 | R. Ozimec, 26.10.2003. |
| CBSS collection 225 | J. Bedek, M. Lukić, 23.03.2003. |
| CBSS collection 226 | H. Cvitanović, 16.11.2005. |
| CBSS collection 227 | J. Bedek, 19.06.2003.; 20.06.2003. |
| CBSS collection 228 | J. Bedek, 26.06.2002. |
| CBSS collection 229 | J. Bedek, 20.03.2004. |
| CBSS collection 230 | J. Bedek, 18.06.2003. |
| CBSS collection 231 | J. Bedek, 05.04.2006. |
| CBSS collection 232 | M. Lukić, R. Ozimec, 20.06.2002. |
| CBSS collection 233 | J. Bedek, 23.11.2005. |
| CBSS collection 234 | J. Bedek, 19.06.2003. |
| CBSS collection 235 | R. Ozimec, 16.05.2010. |
| CBSS collection 236 | M. Lukić, R. Ozimec, 18.10.2002. |
| CBSS collection 237 | R. Ozimec, 20.03.2004. |
| CBSS collection 238 | M. Lukić, 25.10.2006. |
| CBSS collection 239 | M. Lukić, R. Ozimec, 15.10.2002.; J. Bedek, M. Lukić, R. Ozimec, 22.03.2003. |
| CBSS collection 240 | J. Bedek, 24.11.2005.; M. Lukić, R. Ozimec, 02.04.2006. |
| CBSS collection 241 | M. Franičević, 20.06.2003. |
| CBSS collection 242 | H. Cvitanović, M. Pavlek, 05.04.2006. |
| CBSS collection 243 | R. Ozimec, 29.12.1997., 26.08.1998., 24.09.2001., 26.04.2002., 19.06.2002.; J. Bedek, R. Ozimec, 25.03.2004.; R. Ozimec, 27.07.2004., 08.09.2005.; H. Cvitanović, M. Pavlek, 06.04.2006.; R. Ozimec, 28.07.2006., 29.10.2006., 04.11.2009. |

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| CBSS collection 244 | M. Lukić, R. Ozimec, 18.10.2002. |
| CBSS collection 245 | J. Bedek, M. Pavlek, 21.11.2005. |
| CBSS collection 246 | J. Bedek, 20.06.2003. |
| CBSS collection 247 | M. Pavlek, 21.03.2004. |
| CBSS collection 248 | R. Ozimec, 27.04.2002.; 16.10.2002.; H. Cvitanović, R. Ozimec, 05.11.2009. |
| CBSS collection 249 | J. Bedek, G. Miščenić, 22.06.2003. |
| CBSS collection 250 | R. Ozimec, 06.11.2009. |
| CBSS collection 251 | R. Ozimec, 03.05.1997. |
| CBSS collection 252 | M. Pavlek, 02.04.2006. |
| CBSS collection 253 | H. Cvitanović, 13.11.2010. |
| CBSS collection 254 | H. Bilandžija, 21.03.2004. |
| CBSS collection 255 | B. Jalžić, R. Ozimec, 19.10.2000.; J. Bedek, 09.07.2009.; R. Ozimec, P. Rade, 26.05.2009. |
| CBSS collection 256 | B. Jalžić, M. Lukić, 27.04.2004. |
| CBSS collection 257 | J. Bedek, H. Bilandžija, 24.04.2004. |
| CBSS collection 258 | R. Ozimec, 27.04.2004. |
| CBSS collection 259 | M. Lukić, 25.04.2004. |
| CBSS collection 260 | S. Gottstein Matičec, R. Ozimec, M. Vojinović, 04.06.2000.; H. Bilandžija, M. Pavlek, 26.04.2004.; H. Bilandžija, P. Bregović, M. Pavlek, 30.09.2007. |
| CBSS collection 261 | J. Bedek, 25.04.2004. |
| CBSS collection 262 | M. Lukić, 24.04.2004. |
| CBSS collection 263 | J. Bedek, 25.04.2004. |
| CBSS collection 264 | M. Lukić, 23.04.2004. |
| CBSS collection 265 | H. Bilandžija, M. Lukić, 25.04.2004.; M. Lukić, 27.04.2004. |
| CBSS collection 266 | R. Ozimec, 28.08.1995.; R. Ozimec, S. Gottstein Matičec, M. Vojinović, 04.06.2000.; H. Bilandžija, R. Ozimec, M. Pavlek, 23.04.2004.; H. Bilandžija, P. Bregović, 01.10.2007.; M. Ozimec, 26.12.2009. |
| CBSS collection 267 | J. Bedek, 30.03.2008., 02.11.2008. |
| CBSS collection 268 | J. Bedek, A. Kirin, 24.06.2010. |
| CBSS collection 269 | B. Jalžić, 21.08.1997. |
| CBSS collection 270 | R. Ozimec, 04.11.2008.; A. Komarički, K. Miculinić, 23.06.2009. |
| CBSS collection 271 | R. Ozimec, 07.-08.10.2009. |
| CBSS collection 272 | R. Ozimec, 31.03.2008.; J. Bedek, M. Lukić, 03.11.2008. |
| CBSS collection 273 | J. Bedek, P. Rade, 03.04.2005.; J. Bedek, 15.03.2011. |
| CBSS collection 274 | M. Franičević, 29.09.1996.; R. Ozimec, 04.08.2004., 26.10.2006.; J. Bedek, 22.10.2007.; F. Kljaković Gašpić, M. Pavlek, 05.01.2009.; M. Lukić, M. Novokmet, 05.10.2009. |
| CBSS collection 275 | J. Bedek, M. Lukić, 22.10.2007.; H. Bilandžija, 05.01.2009. |
| CBSS collection 276 | J. Bedek, H. Bilandžija, 24.10.2007. |
| CBSS collection 277 | J. Bedek, H. Bilandžija, 24.10.2007. |
| CBSS collection 278 | J. Bedek, R. Ozimec, 28.11.2010. |
| CBSS collection 279 | J. Bedek, 29.11.2010. |
| CBSS collection 280 | R. Ozimec, H. Cvitanović, 23.12.2007. |
| CBSS collection 281 | B. Jalžić, 03.07.2009. |
| CBSS collection 282 | J. Bedek, 29.11.2010. |
| CBSS collection 283 | R. Ozimec, S. Polak, 06.07.2010.; J. Bedek, R. Ozimec, 26.11.2010. |
| CBSS collection 284 | A. Kirin, K. Miculinić, 02.06.2010. |
| CBSS collection 285 | H. Bilandžija, M. Lukić, 07.11.2006. |

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| CBSS collection 286 | M. Lukić, 16.09.2007. |
| CBSS collection 287 | I. Jaklinović, 25.07.2006. |
| CBSS collection 288 | D. Hmura, M. Lukić, 17.09.2007. |
| CBSS collection 289 | A. Komerički, K. Miculinić, 02.06.2010. |
| CBSS collection 290 | P. Bregović, 17.09.2007. |
| CBSS collection 291 | P. Bregović, M. Pavlek, 17.09.2007. |
| CBSS collection 292 | M. Pavlek, 26.07.2006.; H. Bilandžija, 14.09.2007. |
| CBSS collection 293 | P. Bregović, 18.09.2007. |
| CBSS collection 294 | H. Bilandžija, 25.06.2009. |
| CBSS collection 295 | M. Lukić, 25.06.2009. |
| CBSS collection 296 | A. Komerički, K. Miculinić, 03.06.2010. |
| CBSS collection 297 | J. Bedek, 01.06.2010. |
| CBSS collection 298 | M. Lukić, 27.06.2009.; J. Bedek, M. Lukić, K. Miculinić, 04.06.2010. |
| CBSS collection 299 | M. Lukić, 27.06.2009. |
| CBSS collection 300 | D. Hmura, 18.09.2007. |
| CBSS collection 301 | J. Bedek, P. Bregović, 25.06.2009. |
| CBSS collection 302 | H. Bilandžija, P. Bregović, A. Kolarić, M. Lukić, M. Pavlek, 23.07.2006. |
| CBSS collection 303 | M. Rađenović, 13.09.2008. |
| CBSS collection 304 | J. Bedek, M. Lukić, 04.06.2010. |
| CBSS collection 305 | P. Bregović, 27.06.2009. |
| CBSS collection 306 | J. Bedek, K. Miculinić, 01.06.2010. |
| CBSS collection 307 | M. Lukić, 24.04.2009. |
| CBSS collection 308 | M. Pavlek, 24.07.2006.; A. Kirin, 04.06.2010. |
| CBSS collection 309 | A. Komerički, 24.04.2009. |
| CBSS collection 310 | J. Bedek, 17.09.2007. |
| 4CBSS collection 311 | J. Bedek, M. Lukić, 28.06.2009. |
| CBSS collection 312 | J. Bedek 24.04.2009. |
| CBSS collection 313 | M. Pavlek, 22.04.2009. |
| CBSS collection 314 | J. Bedek, P. Bregović, A. Komerički, 21.04.2009. |
| CBSS collection 315 | M. Pavlek, 17.10.2009. |
| CBSS collection 316 | J. Bedek, M. Lukić, M. Pavlek, 08.07.2007.; P. Bregović, M. Lukić, 28.04.2009.; A. Komerički, 16.10.2009. |
| CBSS collection 317 | A. Kirin, 06.06.2010. |
| CBSS collection 318 | P. Bregović, M. Lukić, 16.10.2009. |
| CBSS collection 319 | J. Bedek, M. Lukić, M. Pavlek, 09.07.2007.; J. Bedek, M. Lukić, 06.04.2008.; P. Bregović, A. Komerički, 27.04.2009.; L. Đud, A. Komerički, 16.10.2009. |
| CBSS collection 320 | J. Bedek, M. Lukić, 06.04.2008.; H. Cvitanović, 28.04.2009.; M. Lukić, 18.10.2009. |
| CBSS collection 321 | M. Lukić, 16.10.2009. |
| CBSS collection 322 | H. Cvitanović, A. Ćukušuć, A. Komerički, M. Lukić, 29.04.2009.; P. Bregović, 15.10.2009.; A. Komerički, 17.10.2009. |
| CBSS collection 323 | M. Lukić, 02.07.2005. |
| CBSS collection 324 | J. Bedek, M. Lukić, R. Ozimec, 08.05.2005.; M. Pavlek, 05.08.2007.; J. Bedek, A. Kirin, 01.05.2010. |
| CBSS collection 325 | H. Bilandžija, I. Budinski, 30.07.2007. |
| CBSS collection 326 | A. Kirin, 31.04.2010. |
| CBSS collection 327 | J. Bedek, 23.06.2010. |
| CBSS collection 328 | J. Bedek, 21.06.2010. |

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| CBSS collection 329 | B. Jalžić, 25.08.1997. |
| CBSS collection 330 | V. Jakobović, M. Lukić, R. Ozimec, M. Pavlek, 24.09.2005. |
| CBSS collection 331 | H. Bilandžija, M. Pavlek, 21.07.2007. |
| CBSS collection 332 | N. Raguž, 21.07.2007.; M. Pavlek, 12.08.2007. |
| CBSS collection 333 | A. Kirin, 14.05.2009. |
| CBSS collection 334 | K. Miculinić, 14.05.2009. |
| CBSS collection 335 | M. Lukić, 14.05.2009. |
| CBSS collection 336 | J. Bedek, 27.08.2008. |
| CBSS collection 337 | R. Ozimec, 28.01.1995. ; J. Bedek, M. Lukić, 17.04.2004. |
| CBSS collection 338 | H. Cvitanović, 10.2000. |
| CBSS collection 339 | H. Bilandžija, 15.06.2008., 23.08.2008.; A. Kirin, 11.05.2009.; A. Komerički, 14.05.2009. |
| CBSS collection 340 | H. Cvitanović, 17.07.1999. |
| CBSS collection 341 | H. Cvitanović, 18.05.1997.; R. Ozimec, 11.11.1998. |
| CBSS collection 342 | J. Bedek, K. Miculinić, 15.06.2008.; A. Komerički, 12.09.2009. |
| CBSS collection 343 | H. Cvitanović, 10.09.2000.; M. Pavlek, 25.08.2008. |
| CBSS collection 344 | J. Bedek, 12.05.2009.* |
| CBSS collection 345 | K. Miculinić, 18.06.2008.; A. Komerički, 12.05.2009.; A. Kirin, M. Lukić, 14.05.2009. |
| CBSS collection 346 | M. Lukić, 15.06.2008. |
| CBSS collection 347 | J. Bedek, 13.05.2009. |
| CBSS collection 348 | H. Bilandžija, 16.06.2008. |
| CBSS collection 349 | J. Bedek, 24.06.2008.; M. Lukić, K. Miculinić, M. Pavlek, 26.08.2008.; M. Lukić, 12.05.2009.; A. Kirin, 24.05.2009. |
| CBSS collection 350 | M. Pavlek, 21.06.2008. |
| CBSS collection 351 | H. Cvitanović, 12.10.2001.; M. Lukić, 17.06.2008.; J. Bedek, 09.05.2009.; A. Kirin, 13.05.2009. |
| CBSS collection 352 | K. Miculinić, 08.12.2008.; J. Bedek, 14.05.2009. |
| CBSS collection 353 | H. Bilandžija, 18.06.2008.; M. Lukić, 07.12.2008.; A. Kirin, 24.05.2009. |
| CBSS collection 354 | M. Lukić, 15.06.2008.; A. Kirin, 10.05.2009. |
| CBSS collection 355 | J. Bedek, H. Cvitanović, 20.03.2009.; R. Ozimec, 06.06.2009. |
| CBSS collection 356 | J. Bedek, 19.03.2009. |
| CBSS collection 357 | R. Ozimec, P. Rade, 20.03.2009. |
| CBSS collection 358 | R. Ozimec, P. Rade, 20.03.2009. |
| CBSS collection 359 | R. Ozimec, 12.07.1998.; J. Bedek, H. Cvitanović, M. Lukić, 18.03.2009.; J. Bedek, 07.06.2009. |
| CBSS collection 360 | J. Bedek, 09.06.2003. |
| CBSS collection 361 | T. Kolman, 27.10.2002. |
| CBSS collection 362 | R. Ozimec, 25.08.1996., 28.02.1998. |
| CBSS collection 363 | R. Ozimec, 01.02.1998.; J. Bedek , M. Lukić, 22.09.2002. |
| CBSS collection 364 | R. Ozimec, T. Rubinić, 01.02.2002. |
| CBSS collection 365 | R. Ozimec, 07.06.2003. |
| CBSS collection 366 | R. Ozimec, I. Rašić, 09.06.2003. |
| CBSS collection 367 | T. Rubinić, 29.11.2003. |
| CBSS collection 368 | R. Ozimec, 26.04.2003. |
| CBSS collection 369 | T. Rubinić, 01.12.2002. |
| CBSS collection 370 | J. Bedek, 21.09.2002. |
| CBSS collection 371 | J. Bedek, R. Ozimec, T. Rubinić, 21.09.2002. |

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| CBSS collection 372 | T. Rubinić, 26.04.1998., 18.06.1989.; J. Bedek, 27.01.2003. |
| CBSS collection 373 | R. Ozimec, T. Rubinić, 20.09.2002.; M. Lukić, 22.09.2002. |
| CBSS collection 374 | K. Motočić, 09.06.2003. |
| CBSS collection 375 | T. Rubinić, 24.02.2002.; R. Ozimec, T. Rubinić, 20.09.2002.; T. Rubinić, 07.10.2002. |
| CBSS collection 376 | J. Bedek, 22.09.2002. |
| CBSS collection 377 | R. Baković, 21.06.2008.; J. Bedek, M. Pavlek, 24.08.2008.; M. Lukić, 24.05.2009. |
| CBSS collection 378 | K. Miculinić, 24.06.2008.; A. Komerički, 15.05.2009. |
| CBSS collection 379 | M. Lukić, K. Miculinić, 14.06.2008. |
| CBSS collection 380 | R. Ozimec, T. Rubinić, 03.11.2002. |
| CBSS collection 381 | T. Rubinić, 07.09.2003. |
| CBSS collection 382 | T. Rubinić, 18.01.1998.; R. Ozimec, T. Rubinić, 15.09.2002. |
| CBSS collection 383 | H. Cvitanović, 17.09.2009. |
| CBSS collection 384 | J. Bedek, 19.03.2009. |
| CBSS collection 385 | J. Bedek, 03.11.2002. |
| CBSS collection 386 | T. Rubinić, 02.02.2002. |
| CBSS collection 387 | T. Rubinić, 15.11.1997.; R. Ozimec, 19.04.1998.; J. Bedek, R. Ozimec, T. Rubinić, 02.11.2002. |
| CBSS collection 388 | R. Ozimec, 02.02.1997.; J. Bedek, R. Ozimec, T. Rubinić, 02.11.2002.; J. Bedek, 19.10.2003.; M. Pavlek, 11.12.2004. |
| CBSS collection 389 | T. Rubinić, 02.05.1998. |
| CBSS collection 390 | T. Rubinić, 31.08.1997.; R. Ozimec, T. Rubinić, 03.11.2002. |
| CBSS collection 391 | H. Cvitanović, 27.04.1996.; R. Ozimec, 29.01.1998.; H. Cvitanović, 01.02.1998.; R. Ozimec, 27.02.2000.; J. Bedek, 20.10.2001. |
| CBSS collection 392 | J. Bedek, 08.08.2003.; J. Bedek, M. Lukić, 05.08.2004., 06.08.2004.; J. Bedek, 10.08.2005. |
| CBSS collection 393 | M. Lukić, 29.-30.05.2010. |
| CBSS collection 394 | J. Bedek, R. Ozimec, 27.11.2010. |
| CBSS collection 395 | J. Bedek, M. Pavlek, 07.11.2006. |
| CBSS collection 396 | M. Lukić, 19.09.2007. |
| CBSS collection 397 | M. Lukić, 07.11.2006. |
| CBSS collection 398 | R. Ozimec, 14.09.2007. |
| CBSS collection 399 | J. Bedek, 06.11.2006. |
| CBSS collection 400 | J. Bedek, P. Bregović, M. Pavlek, 23.04.2009. |
| CBSS collection 401 | J. Bedek, M. Lukić, 08.11.2006. |
| CBSS collection 402 | A. Kolarić, 26.07.2006. |
| CBSS collection 403 | J. Bedek, M. Lukić, 18.09.2007. |
| CBSS collection 404 | J. Bedek, 05.11.2006. |
| CBSS collection 405 | H. Bilandžija, P. Bregović, 25.06.2009. |
| CBSS collection 406 | M. Lukić, 25.06.2009. |
| CBSS collection 407 | J. Bedek, A. Kirin, 03.06.2010. |
| CBSS collection 408 | M. Lukić, 25.04.2009. |
| CBSS collection 409 | K. Miculinić, 01.06.2010. |
| CBSS collection 410 | J. Bedek, P. Bregović, 26.06.2009. |
| CBSS collection 411 | J. Bedek, M. Lukić, K. Miculinić, 04.06.2010. |
| CBSS collection 412 | A. Komerički, M. Lukić, 01.06.2010. |
| CBSS collection 413 | M. Lukić, 27.06.2009. |

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| CBSS collection 414 | H. Bilandžija, D. Hmura, M. Pavlek, 18.09.2007. |
| CBSS collection 415 | H. Bilandžija, , 27.06.2009. |
| CBSS collection 416 | H. Cvitanović, M. Lukić, M. Pavlek, 06.11.2006. |
| CBSS collection 417 | H. Bilandžija, M. Lukić, 26.06.2009. |
| CBSS collection 418 | J. Bedek, H. Bilandžija, P. Bregović, 27.06.2009. |
| CBSS collection 419 | J. Bedek, 26.06.2009. |
| CBSS collection 420 | P. Bregović, I. Jaklinović, A. Kolarić, M. Pavlek, N. Raguž, 24.07.2006.; A. Kirin, A. Komerički, 04.06.2010. |
| CBSS collection 421 | J. Bedek, P. Bregović, 24.06.2009. |
| CBSS collection 422 | H. Bilandžija, B. Jalžić, M. Pavlek, 04.11.2006.; H. Bilandžija, 17.09.2007. |
| CBSS collection 423 | J. Bedek, 04.11.2006. |
| CBSS collection 424 | H. Bilandžija, P. Bregović, 28.06.2009. |
| CBSS collection 425 | H. Bilandžija, H. Cvitanović, M. Pavlek, 04.10.2006. |
| CBSS collection 426 | J. Bedek, M. Lukić, 28.06.2009. |
| CBSS collection 427 | M. Pavlek, 26.04.2009. |
| CBSS collection 428 | J. Bedek, 26.04.2009.; A. Kirin, A. Komerički, 04.06.2010. |
| CBSS collection 429 | P. Bregović, A. Komerički, 21.04.2009. |
| CBSS collection 430 | P. Bregović, 24.04.2009. |
| CBSS collection 431 | R. Ozimec, 03.07.1994., 09.04.1994., 28.09.1996.; J. Bedek, R. Ozimec, 07.07.2007. |
| CBSS collection 432 | M. Lukić, 02.05.2004. |
| CBSS collection 433 | R. Ozimec, 01.06.1997. |
| CBSS collection 434 | S. Minihofe, 24.07.2004. |
| CBSS collection 435 | R. Ozimec, 03.08.2003. |
| CBSS collection 436 | R. Ozimec, 02.08.2003. |
| CBSS collection 437 | R. Ozimec, 31.08.1996. |
| CBSS collection 438 | J. Bedek, 12.07.2005. |
| CBSS collection 439 | G. Polić, 18.05.1997. |
| CBSS collection 440 | J. Bedek, 09.12.2000. |
| CBSS collection 441 | M. Lukić, 31.01.2008. |
| CBSS collection 442 | J. Bedek, 07.09.2009. |
| CBSS collection 443 | R. Ozimec, 08.09.2009.; A. Komerički, 09.09.2009 |
| CBSS collection 444 | J. Bedek, R. Ozimec, 08.09.2009.; M. Lukić, 12.09.2009. |
| CBSS collection 445 | J. Bedek, 08.09.2009. |
| CBSS collection 446 | A. Kirin, 17.05.2009.; M. Lukić, 11.09.2009. |
| CBSS collection 447 | M. Lukić, 09.09.2009. |
| CBSS collection 448 | R. Ozimec, 17.06.2006. |
| CBSS collection 449 | H. Cvitanović, 29.11.2003.; J. Bedek, M. Pavlek, 01.02.2004. |
| CBSS collection 450 | R. Ozimec, 28.01.1995. |
| CBSS collection 451 | J. Bedek, 01.02.2008.; H. Bilandžija, B. Jalžić, 18.06.2008. |
| CBSS collection 452 | R. Ozimec, 17.06.2008. |
| CBSS collection 453 | H. Cvitanović, 14.04.1997., 21.06.1997.; J. Bedek, 31.01.2004. |
| CBSS collection 454 | M. Lukić, 26.03.2008. |
| CBSS collection 455 | H. Cvitanović, 26.03.2008., 31.10.2008. |
| CBSS collection 456 | H. Cvitanović, 26.03.2008.; J. Bedek, 31.10.2008. |
| CBSS collection 457 | M. Lukić, R. Ozimec, 02.11.2008. |
| CBSS collection 458 | J. Bedek, 30.03.2008. |

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| CBSS collection 459 | J. Bedek, D. Župan, 01.11.2008. |
| CBSS collection 460 | R. Ozimec, 07.10.2009. |
| CBSS collection 461 | R. Ozimec, 25.06.2009. |
| CBSS collection 462 | M. Lukić, 03.11.2008. |
| CBSS collection 463 | J. Bedek, 26.03.2008. |
| CBSS collection 464 | M. Lukić, 31.10.2008. |
| CBSS collection 465 | J. Bedek, R. Ozimec, 31.10.2008. |
| CBSS collection 466 | J. Bedek, 31.10.2008.; J. Bedek, M. Lukić, 04.11.2008. |
| CBSS collection 467 | R. Ozimec, 02.11.2008. |
| CBSS collection 468 | J. Bedek, 30.03.2008., 02.11.2008. |
| CBSS collection 469 | J. Bedek, H. Cvitanović, M. Lukić, 28.03.2008. |
| CBSS collection 470 | K. Miculinić, P. Rade, 31.10.2008. |
| CBSS collection 471 | J. Bedek, K. Miculinić, D. Župan, 01.11.2008. |
| CBSS collection 472 | H. Cvitanović, 27.03.2008. |
| CBSS collection 473 | A. Komericki, 06.10.2009. |
| CBSS collection 474 | H. Cvitanović, 21.06.2009. |
| CBSS collection 475 | K. Miculinić, 29.03.2008. |
| CBSS collection 476 | R. Ozimec, 29.03.2008.; M. Lukić, R. Ozimec, 01.11.2008.; R. Ozimec, 22.06.2009. |
| CBSS collection 477 | J. Bedek, H. Cvitanović, M. Lukić, 31.03.2008. |
| CBSS collection 478 | J. Bedek, 01.11.2008. |
| CBSS collection 479 | M. Pavlek, 09.04.2007. |
| CBSS collection 480 | M. Pavlek, 11.04.2007. |
| CBSS collection 481 | P. Bregović, M. Lukić, 03.05.2008. |
| CBSS collection 482 | M. Lukić, 03.05.2008. |
| CBSS collection 483 | J. Bedek, 03.05.2008. |
| CBSS collection 484 | J. Bedek, H. Bilandžija, M. Pavlek, 08.04.2007.; M. Lukić, 28.04.2008. |
| CBSS collection 485 | H. Bilandžija, 28.04.2008. |
| CBSS collection 486 | J. Bedek, I. Boršić, T. Dražina, 19.06.2001.; M. Pavlek, 07.04.2007.; J. Bedek, 12.04.2007. |
| CBSS collection 487 | J. Bedek, 10.04.2007., 14.04.2007.; H. Bilandžija, 30.05.2007.; J. Bedek, H. Bilandžija, P. Bregović, M. Lukić, 02.05.2008. |
| CBSS collection 488 | H. Bilandžija, 30.04.2008. |
| CBSS collection 489 | R. Ozimec, 07.-08.10.2009. |
| CBSS collection 490 | R. Ozimec, 07.10.2009. |
| CBSS collection 491 | J. Bedek, H. Cvitanović, 27.03.2008. |
| CBSS collection 492 | R. Ozimec, 31.03.2008. |
| CBSS collection 493 | R. Ozimec, 27.08.1998. |
| CBSS collection 494 | J. Bedek, 21.03.2004. |
| CBSS collection 495 | R. Ozimec, 25.05.2004.; J. Bedek, 02.04.2006.; M. Lukić, 22.06.2007.; J. Bedek, M. Lukić, 19.08.2007. |
| CBSS collection 496 | R. Ozimec, 13.11.2010. |
| CBSS collection 497 | R. Ozimec, 20.08.2005. |
| CBSS collection 498 | J. Bedek, H. Bilandžija, 24.04.2004. |
| CBSS collection 499 | R. Ozimec, 27.04.2004. |
| CBSS collection 500 | R. Ozimec, M. Pavlek, 26.04.2004.; H. Bilandžija, M. Pavlek, 30.09.2007. |
| CBSS collection 501 | H. Cvitanović, M. Lukić, 03.04.2006.; J. Bedek, H. Cvitanović, 27.10.2006. |

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| CBSS collection 502 | S. Gottstein, R. Ozimec, 03.06.2000. |
| CBSS collection 503 | M. Pavlek, 11.04.2007.; J. Bedek, H. Bilandžija, 26.04.2008. |
| CBSS collection 504 | J. Bedek, 10.04.2007.; H. Bilandžija, 30.05.2007.; J. Bedek, H. Bilandžija, P. Bregović, 02.05.2008. |
| CBSS collection 505 | J. Bedek, R. Ozimec, 06.01.2005.; J. Bedek, A. Kirin, A. Komerički, P. Kovač Konrad, 04.05.2010.; A. Kirin, 08.10.2010. |
| CBSS collection 506 | A. Kirin, 04.05.2010. |
| CBSS collection 507 | A. Kirin, 10.10.2010. |
| CBSS collection 508 | A. Kirin, 09.10.2010. |
| CBSS collection 509 | H. Bilandžija, R. Ozimec, M. Pavlek, 07.01.2005.; J. Bedek, M. Lukić, 05.05.2010.; A. Komerički, K. Miculinić, 06.10.2010. |
| CBSS collection 510 | M. Lukić, 03.05.2010. |
| CBSS collection 511 | J. Bedek, 26.03.2008. |
| CBSS collection 512 | M. Lukić, 02.11.2008. |
| CBSS collection 513 | B. Jalžić, S. Gottstein Matočec, R. Ozimec, 21.06.2001.; J. Bedek, K. Miculinić, D. Župan, 01.11.2008. |
| CBSS collection 514 | M. Pavlek, 26.04.2004. |
| CBSS collection 515 | R. Ozimec, 04.11.2008.; A. Komerički, K. Miculinić, 23.06.2009. |
| CBSS collection 516 | H. Cvitanović, 07.10.2004. |
| CBSS collection 517 | R. Ozimec, 28.06.2003., 31.10.2003., 27.05.2004.; J. Bedek, M. Lukić, 22.08.2005. |
| CBSS collection 518 | M. Lukić, 22.01.2011. |
| CBSS collection 519 | J. Bedek, 06.10.2005. |
| CBSS collection 520 | A. Kirin, K. Miculinić, 02.06.2010. |
| CBSS collection 521 | M. Pavlek, 04.11.2006.; J. Bedek, 17.11.2007., 05.04.2008. |
| CBSS collection 522 | J. Bedek, 24.4.2009. |
| CBSS collection 523 | P. Bregović, M. Pavlek, 17.10.2009. |
| CBSS collection 524 | D. Hmura, 18.10.2009. |
| CBSS collection 525 | H. Cvitanović, A. Komerički, M. Lukić, 29.04.2009. |
| CBSS collection 526 | J. Bedek, A. Kirin, P. Kovač Konrad, M. Lukić, 08.05.2010. |
| CBSS collection 527 | R. Ozimec, 27.08.2005.; J. Bedek, M. Pavlek, 27.10.2006. |
| CBSS collection 528 | R. Ozimec, 28.04.2002. |
| CBSS collection 529 | H. Cvitanović, M. Pavlek, 19.11.2005.; R. Ozimec, 04.04.2006. |
| CBSS collection 530 | R. Ozimec, 19.11.2005. |
| CBSS collection 531 | R. Ozimec, 25.05.2004. |
| CBSS collection 532 | J. Bedek, 27.10.2003. |
| CBSS collection 533 | M. Franičević, 23.05.2004. |
| CBSS collection 534 | R. Ozimec, 08.11.2009. |
| CBSS collection 535 | H. Bilandžija, I. Jaklinović, M. Lukić, 28.10.2003.; H. Bilandžija, R. Ozimec, M. Pavlek, 24.03.2004.; M. Lukić, 01.04.2006.; M. Pavlek, 26.10.2006. |
| CBSS collection 536 | R. Ozimec, 28.10.2003.; J. Bedek, 26.10.2006. |
| CBSS collection 537 | H. Bilandžija, I. Jaklinović, M. Lukić, R. Ozimec, 29.10.2003.; R. Ozimec, 20.05.2010. |
| CBSS collection 538 | R. Ozimec, 16.05.2010. |
| CBSS collection 539 | R. Ozimec, 20.06.2003. |
| CBSS collection 540 | R. Ozimec, 21.06.2003. |
| CBSS collection 541 | J. Bedek, 22.03.2003. |

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| CBSS collection 542 | R. Ozimec, 22.08.1997., 26.08.1998.; R. Ozimec, G. Nonveiller, 07.08.2000.; R. Ozimec, 26.04.2002., 19.06.2002.; M. Lukić, 27.03.2003.; R. Ozimec, 27.07.2004., 08.09.2005., 06.04.2006., 28.07.2006., 04.11.2009. |
| CBSS collection 543 | J. Bedek, 22.10.2007. |
| CBSS collection 544 | H. Cvitanović, 26.04.2004. |
| CBSS collection 545 | M. Pavlek, 01.10.2007. |
| CBSS collection 546 | D. Hmura, I. Jaklinović, R. Ozimec, 02.10.2007.; L. Đud, 03.03.2008.; L. Janković-Rapan, M. Manger, 04.03.2008. |
| CBSS collection 547 | M. Lukić, 01.10.2007. |
| CBSS collection 548 | P. Bregović, 05.03.2008. |
| CBSS collection 549 | T. Čuković, 05.03.2008. |
| CBSS collection 550 | M. Lukić, 27.09.2007. |
| CBSS collection 551 | R. Ozimec, 03.03.2008. |
| CBSS collection 552 | P. Bregović, 29.09.2007.; L. Đud, D. Hmura, 03.03.2008.; L. Đud, R. Ozimec, 04.03.2008. |
| CBSS collection 553 | D. Hmura, M. Lukić, 27.09.2007.; M. Pavlek, 03.10.2007.; L. Đud, A. Ćukušić, 04.03.2008. |
| CBSS collection 554 | R. Ozimec, M. Pavlek, 26.04.2004. |
| CBSS collection 555 | J. Bedek, 27.10.2006. |
| CBSS collection 556 | R. Ozimec, 26.08.2005. |
| CBSS collection 557 | R. Ozimec, G. Nonveiller, 07.08.2000.; R. Ozimec, 13.07.2003., 08.09.2005., 04.11.2009. |
| CBSS collection 558 | B. Jalžić, 09.04.2007. |
| CBSS collection 559 | J. Bedek, H. Bilandžija, M. Pavlek, 09.04.2007.; J. Bedek, M. Pavlek, 27.04.2008. |
| CBSS collection 560 | H. Cvitanović, M. Pavlek, 11.04.2007.; J. Bedek, M. Lukić, M. Pavlek, 26.04.2008. |
| CBSS collection 561 | M. Pavlek, 09.04.2007. |
| CBSS collection 562 | J. Bedek, P. Bregović, 01.05.2008. |
| CBSS collection 563 | J. Bedek, I. Boršić, T. Dražina, 20.06.2001. |
| CBSS collection 564 | P. Rade, 14.04.2007. |
| CBSS collection 565 | M. Pavlek, 07.04.2007.; H. Bilandžija, 12.04.2007. |
| CBSS collection 566 | J. Bedek, 30.04.2008. |
| CBSS collection 567 | J. Bedek, 14.04.2007.; J. Bedek, H. Bilandžija, P. Bregović, M. Pavlek, 02.05.2008. |
| CBSS collection 568 | H. Bilandžija, 30.04.2008. |
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| CNHM collection 1 | B. Jalžić, 17.06.2008. |
| CNHM collection 2 | B. Jalžić, 15.06.2008. |
| CNHM collection 3 | J. Bedek, R. Ozimec, 28.06.2004. |
| CNHM collection 4 | B. Jalžić, 14.06.1996. |
| CNHM collection 5 | B. Jalžić, 29.04.2008. |
| CNHM collection 6 | B. Jalžić, 09.04.2007. |
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| CNHM collection 8 | B. Jalžić, 06.06.2006. |
| CNHM collection 9 | B. Jalžić, 27.06.2002. |
| CNHM collection 10 | B. Jalžić, 28.06.2002. |
| CNHM collection 11 | B. Jalžić, 25.05.2004. |

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| CNHM collection 12 | B. Jalžić, 24.06.2002. |
| CNHM collection 13 | B. Jalžić, 25.05.2004. |
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| CNHM collection 16 | B. Jalžić, 26.06.2002. |
| CNHM collection 17 | B. Jalžić, 15.09.2005. |
| CNHM collection 18 | M. Pavlek, 13.08.2005.; H. Bilandžija, 14.08.2009. |
| CNHM collection 19 | H. Bilandžija, F. Kljaković Gašpić, 15.08.2005. |
| CNHM collection 20 | B. Jalžić, 18.08.2004. |
| CNHM collection 21 | H. Bilandžija, F. Kljaković Gašpić, M. Pavlek, 14.08.2005. |
| CNHM collection 22 | H. Bilandžija, 01.08.2009. |
| CNHM collection 23 | B. Jalžić, 06.03.2001. |
| CNHM collection 24 | H. Bilandžija, B. Jalžić, F. Kljaković Gašpić, M. Pavlek, 17.08.2005. |
| CNHM collection 25 | M. Pavlek, 17.08.2005. |
| CNHM collection 26 | B. Jalžić, 29.06.2002. |
| CNHM collection 27 | B. Jalžić, 22.05.2004. |
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| CNHM collection 33 | S. Vujčić – Karlo, 12.02.1998. |
| CNHM collection 34 | B. Jalžić, 17.07.1997. |
| CNHM collection 35 | B. Jalžić, 16.07.1997.; S. Vujčić – Karlo, 08.02.1998. |
| CNHM collection 36 | B. Jalžić, 19.07.1997. |
| CNHM collection 37 | B. Jalžić, 21.08.1997. |
| CNHM collection 38 | B. Jalžić, 16.10.2007. |
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| CNHM collection 45 | J. Bedek, R. Ozimec, 02.07.2004. |
| CNHM collection 46 | A. Jurinac, 20.08.1883. |
| CNHM collection 47 | B. Jalžić, 07.06.2003. |
| CNHM collection 48 | B. Jalžić, 01.12.2002. |
| CNHM collection 49 | A. Jurinac, 20.08.1883. |
| CNHM collection 50 | A. Langhoffer, Šnap, 16.07.1902. |
| CNHM collection 51 | B. Jalžić, 05.11.2006. |
| CNHM collection 52 | B. Jalžić, 26.06.2009. |
| CNHM collection 53 | B. Jalžić, 26.05.2001. |
| CNHM collection 54 | J. Bedek, R. Ozimec, 29.06.2004. |
| CNHM collection 55 | A. Langhoffer, 14.08.1902. |
| CNHM collection 56 | D. Hirc; J. Notenboom, 03.07.2004. |
| CNHM collection 57 | J. Bedek, 30.06.2004., 10.07.2004. |

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| CNHM collection 58 | H. Cvitanović, S. Gottstein Matočec, R. Ozimec, 03.07.2004. |
| CNHM collection 59 | A. Jurinac, 25.08.1883.; J. Bedek, B. Jalžić, R. Ozimec, 01.07.2004. |
| CNHM collection 60 | A. Jurinac, 20.08.1883. |
| CNHM collection 61 | B. Jalžić, 12.09.1999. |
| CNHM collection 62 | J. Bedek, H. Cvitanović, 27.08.2004. |
| CNHM collection 63 | A. Jurinac, 20.08.1883. |
| CNHM collection 64 | B. Jalžić, 10.02.1998. |
| CNHM collection 65 | B. Jalžić, 21.03.2004. |
| CNHM collection 66 | B. Jalžić, 09.02.1988. |
| CNHM collection 67 | B. Jalžić, 09.04.2007. |
| CNHM collection 68 | B. Jalžić, 27.04.2008. |
| Museo di Storia Naturale dell'Università di Firenze (MZUF) collection | |
| MZUF collection 1 | B. Jalžić, 13.02.1998. |
| MZUF collection 2 | M. Pavlek, 07.06.2006. |
| MZUF collection 3 | M. Pavlek, 23.05.2004. |
| MZUF collection 4 | R. Ozimec, 23.03.2004. |
| MZUF collection 5 | J. Bedek, 21.03.2004. |
| MZUF collection 6 | A. Komerički, 24.04.2009. |
| MZUF collection 7 | M. Lukić, 01.05.2010. |
| MZUF collection 8 | J. Bedek, H. Bilandžija, B. Jalžić, 22.06.2005. |
| MZUF collection 9 | A. Kirin, 12.05.2009. |
| MZUF collection 10 | H. Cvitanović, R. Ozimec, P. Rade, 19.03.2009.; J. Bedek, 06.06.2009. |
| MZUF collection 11 | H. Bilandžija, F. Kljaković Gašpić, B. Jalžić, 13.04.2008. |
| MZUF collection 12 | H. Bilandžija, 11.12.2004. |
| MZUF collection 13 | J. Bedek, M. Lukić, 23.04.2009. |
| MZUF collection 14 | J. Bedek, 27.06.2009. |
| MZUF collection 15 | J. Bedek, 15.08.2009.; H. Bilandžija, 05.09.2010. |
| MZUF collection 16 | M. Lukić, 31.01.2008. |
| MZUF collection 17 | R. Baković, 20.06.2009. |
| MZUF collection 18 | J. Bedek, 05.09.2009. |
| MZUF collection 19 | R. Ozimec, 25.03.2003.; M. Lukić, 19.08.2007. |
| MZUF collection 20 | M. Lukić, 26.04.2008. |
| MZUF collection 21 | A. Komerički, 04.05.2010. |
| MZUF collection 22 | K. Miculinić, 02.06.2010. |
| MZUF collection 23 | R. Ozimec, 20.10.2005. |
| MZUF collection 24 | M. Lukić, 12.02.2005. |
| MZUF collection 25 | H. Cvitanović, 04.03.2008. |
| MZUF collection 26 | H. Bilandžija, B. Jalžić, 26.05.2007. |
| Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad collection | |
| DBE collection 1 | J. Bedek, 17.11.2007., 05.04.2008. |
| Tonći Rađa collection | |
| T. Rađa collection 1 | T. Rađa, S. Šore, 25.08.2001. |

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