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Na osnovu službene evidencije i dokumentacije Prirodno-matematičkog fakulteta u Podgorici, izdaje se

POTVRDA

Mr Bogić Gligorović, student doktorskih studija na Prirodno-matematičkom fakultetu u Podgorici, dana 11. 07. 2017. godine dostavio je ovom Fakultetu doktorsku disertaciju pod nazivom "**Faunistička i ekološka istraživanja izvora sliva Skadarskog jezera sa posebnim osvrtom na faunu Odonata i Hemiptera**", na dalji postupak.

D e k a n,

Prof. dr Predrag Miranović

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Datum: 30 08 2017

Na osnovu člana 64 Statuta Univerziteta Crne Gore, i člana 41 Pravila doktorskih studija, Vijeće Fakulteta na VI sjednici održanoj 12.07.2017. godine, donijelo je

ODLUKU

I Utvrđuje se da su ispunjeni uslovi iz člana 38 Pravila doktorskih studija za dalji rad na doktorskoj disertaciji „Faunistička i ekološka istraživanja izvora sliva Skadarskog jezera sa posebnim osvrtom na faunu Odonata i Hemiptera" kandidata Bogića Gligorovića

II Predlaže se Komisija za ocjenu navedene doktorske disertacije u sastavu:

1. Dr Drago Marić redovni profesor PMF-a u Podgorici, (naučna oblast:Ekologija i Biodiverzitet);
2. Dr Jelena Rakočević, vanredni profesor PMF-a u Podgorici (naučna oblast: Ekologija i Biodiverzitet);
3. Dr Ljiljana Tomović, redovni profesor Univerziteta u Beogradu (naučna oblast: Ekologija I Biodiverzitet);
4. Dr.Ana Savić, docent Univerziuteta u Nišu (naučna oblast: Ekologija i Biodiverzitet);
5. Dr Vladimir Pešić, redovni profesor PMF-a u Podgorici (naučna oblast: Ekologija i Biodiverzitet).

Komisija iz tačke II ove Odluke podnijeće Izvještaj Vijeću fakulteta u roku od 45 dana od dana imenovanja.

Dostavljeno:

- Senatu
- Centru za doktorske studije
- dosije
- a/a

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Prof. dr Predrag Miranović

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Datum: 28 12 2017

UNIVERZITET CRNE GORE

-Centar za doktorske studije-

-Senat-

U skladu sa članom 41 Pravila doktorskih studija, u prilogu akta dostavljamo predlog Odluke Vijeća o imenovanju komisije za ocjenu doktorske disertacije mr Bogića Gligorovića, pod nazivom **„Faunistička i ekološka istraživanja izvora sliva Skadarskog jezera sa posebnim osvrtom na faunu Odonata i Hemiptera“** radi davanja saglasnosti.

Prilog:

-Obrazac D2 sa neophodnim prilozima

DEKAN
Prof. dr Predrag Miranović

UCG

Crna Gora
UNIVERZITET CRNE GORE
PRIRODNO-MATEMATIČKI FAKULTET
Broj 1961
Podgorica, 11 07 2017 god.

UNIVERZITET CRNE GORE
ObrazacD2: Ispunjenost uslova doktoranda

ISPUNJENOST USLOVA DOKTORANDA

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Broj indeksa	2010
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Na službenom jeziku	Faunistička i ekološka istraživanja izvora sliva Skadarskog jezera sa posebnim osvrtom na faunu Odonata i Hemiptera
Na engleskom jeziku	Faunistic and ecological research of the springs of the basin of the Skadar Lake with special overview to the fauna of Odonata and Hemiptera
Naučna oblast	Biodiverzitet

MENTOR/MENTORI			
Prvi mentor	Prof. dr Vladimir Pešić	Univerzitet Crne Gore Crna Gora	Ekologija i Biodiverzitet

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Prof. dr Drago Marić	Univerzitet Crne Gore Crna Gora	Ekologija i Biodiverzitet
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Doc. dr Ana Savić	Univerzitet u Nišu Srbija	Ekologija i Biodiverzitet
Prof. dr Vladimir Pešić	Univerzitet Crne Gore Crna Gora	Ekologija i Biodiverzitet

Datum značajni za ocjenu doktorske disertacije	
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U skladu sa članom 38 pravila doktorskih studija kandidat **je/nije** cjelokupna ili dio sopstvenih istraživanja vezanih za doktorsku disertaciju publikovao u časopisu sa **(SCI/SCIE)/(SSCI/A&HCI)** liste kao prvi autor.
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45(4):554-563. http://yadda.icm.edu.pl/yadda/element/bwmeta1.element.baztech-acf8c527-300f-4594-90a0-e496facaceb1

Pešić, V. , Gligorivić, B., Savić, A. & Buczyński, P. 2017. Ecological patterns of Odonata assemblages in karst springs in central Montenegro. Knowledge and Management of Aquatic Ecosystems, 418, 3.
https://www.kmaejournal.org/articles/kmae/full_html/2017/01/kmae160138/kmae160138.html

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Grosser, C., Pešić, V. & Gligorović, B. (2015a). A checklist of the leeches (Annelida: Hirudinea) of Montenegro. Ecologica Montenegrina, 2(1), 20–28.
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U Podgorici
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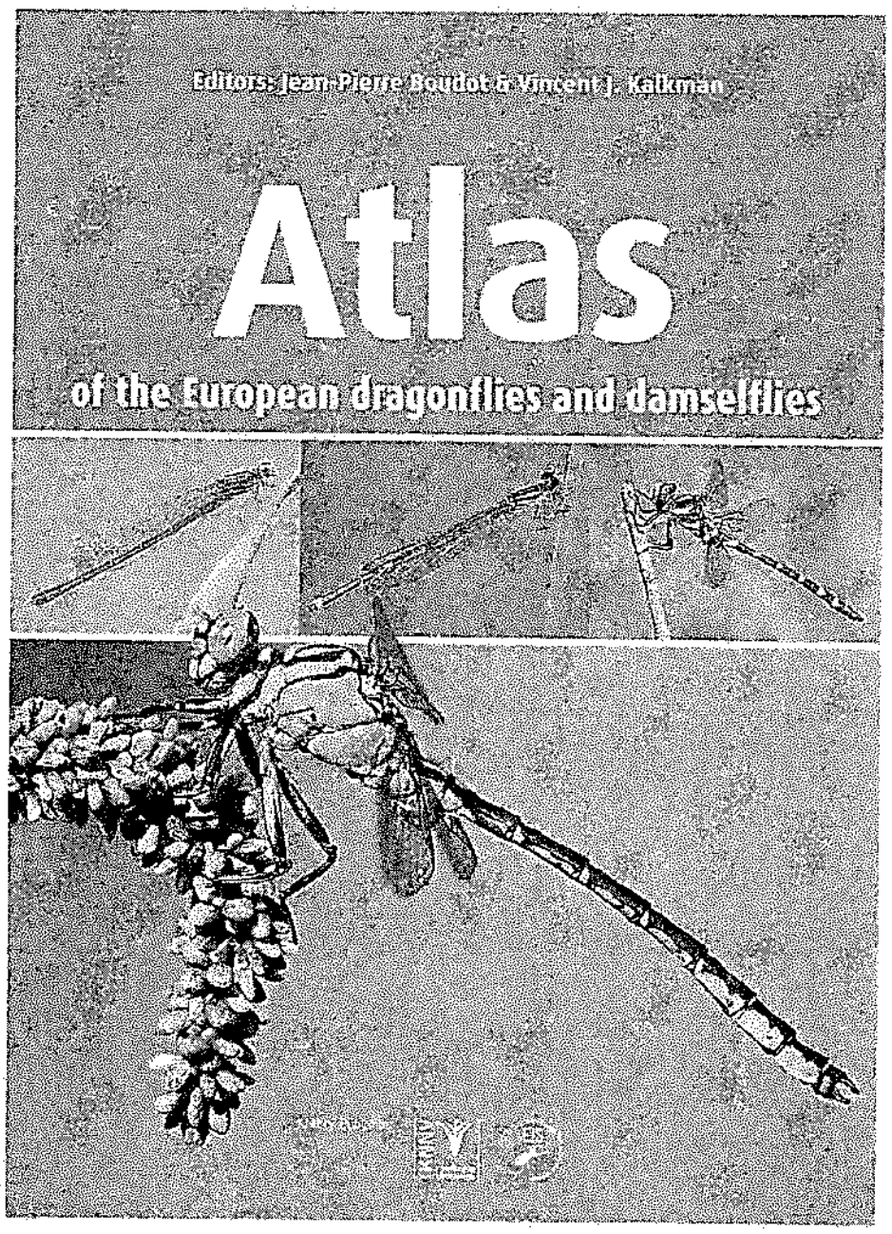

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Ecological patterns of water bug (Hemiptera: Heteroptera) assemblages in karst springs: a case study from central Montenegro

by

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Abstract

The composition of water bug communities from 32 springs located in the central part of Montenegro was investigated. Twenty five species were identified, including 13 reported as new to Montenegro. The most common species were *Hydrometra stagnorum* and *Velia* sp. (Gerromorpha). Our study in the central part of Montenegro revealed that environmental and faunistic classification of karstic springs based on water bug communities may not correspond with each other. According to environmental characteristics, springs were divided into three groups indicating anthropogenic impact on the spring habitats. Water bug communities divided springs into four groups. There are differences in species richness between these four types of water bug assemblages and among the studied spring types. Results of CCA analysis revealed spring size as the main driver of biotic diversity of aquatic bugs in springs. Our study showed that community groups of water bugs specified in the biotic classification of spring habitats are much better defined than assemblages distinguished in the environmental site classification.

Key words: water bugs, Montenegro, springs, crenobiology, diversity

Introduction

Water bugs are an important component of the aquatic fauna. They are widely distributed and inhabit aquatic and semi-aquatic habitats, including both lentic and lotic bodies of water (Souza et al. 2006). In general, water bugs have a high dispersion capacity (Savage 1994; Usseglio-Polatera et al. 2000; Wachmann et al. 2006). For this reason, it is difficult to define the types of water bug assemblages (Carbonell et al. 2011). Although found in all types of aquatic habitats, they do not prefer high water velocity and prevail in stagnant or slow-flowing waters (Karaouzas, Gritzalis 2006; Nosek et al. 2007; Skern et al. 2010). Generally, the dimensions of water bodies, land use, aquatic and riparian vegetation, and water chemistry were considered as the most important factors affecting the assemblages of water bugs (Hufnagel et al. 1999; Karaouzas, Gritzalis 2006). Little is known about the ecology of water bugs in springs and there are no research on ecological factors that determine species distribution in these habitats.

In general, the fauna of water bugs in Montenegro is insufficiently studied (Schumacher 1914; Horváth 1918; Novak, Wagner 1955; Filippi 1957; Grupče 1961; Wagner 1962; Štusák 1980; Protić et al. 1990; Protić 1998; Kment et al. 2005; Kovács et al. 2011; Aukema et al. 2013). So far 18 species of water bugs are recorded for Montenegro. This is a relatively small number as compared to the neighboring countries (Serbia, Macedonia and Croatia) where more than 50 species are reported in each of them (Aukema, Rieger 1995; Protić 1998; 2011; Kment, Beran 2011; Aukema et al. 2013; Boda et al. 2015).

The objective of the present study was to determine which assemblages of water bugs (Heteroptera: Nepomorpha and Gerromorpha) occur in spring habitats in Montenegro, to evaluate the impact of environmental factors on the spatial pattern of these assemblages and to check the congruence of water bug assemblages based on biotic and environmental classification of karstic spring habitats.

Study area

Montenegro is the Western Balkan State and covers a total area of 14,026 km^2. It is a large karstic region and most of the country is covered by the Dinaric Alps. The highest point in the country is Bobotov Kuk (2522 m). The lower areas of Montenegro include the valley of the Zeta River, the Skadar Lake depression and a narrow coastal plain. Biogeographically, Montenegro belongs to the Alpine and Mediterranean regions which divide the country into two almost equal halves (EEA 2016). The lower areas of Montenegro have a warm Mediterranean climate, with hot and dry summers and cool, rainy winters.

The study was conducted in the area located in the Skadar Lake drainage basin. Lake Skadar is the largest lake in the Balkan Peninsula with a surface area that seasonally fluctuates between 370 to 600 km^2. There are a number of temporary and permanent karstic springs, some of which are sublacustrine in cryptodepressians (so called 'oko') (Pešić, Glöer, 2013). The majority of springs are vauclusian springs and they are mostly cave springs.

Materials and methods

Water bugs were sampled with a small Surber sampler (10 × 10 cm = 0.01 m^2, 350 µm mesh width). The sampling was done in summer 2014. All samples were immediately preserved in 96% ethanol, and subsequently sorted and determined in the laboratory.

In total, 230 adult and larvae specimens of water bugs were collected. The material was identified mostly based on Tamanini (1979) and Macan (1976).

Samples were collected from 32 springs located in the central part of Montenegro (Table 1). At the each site, water temperature and pH were measured with a pH-meter (HI 98127, 0.1 accuracy). Springs were divided into four classes based on their size: 1: <1 m^2, 2: 1-5 m^2, 3: 5-20 m^2, 4: >20 m^2. Water discharge was determined visually and grouped in classes (Table 2): 1 (<1 l min^{-1}), 2: (>1 and <5 l min^{-1}), 3: (>5 and <25 l min^{-1}), 4: (<25 l min^{-1}) according to Von Fumetti et al. (2006). The substrate types were categorized into five classes of frequency (Table 2) based on the percentage cover (Von Fumetti et al. 2006): 0: 0%; 1: 1-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%.

Data analyses

Statistical analyses were performed using PRIMER 7.0 (Clarke, Gorley 2015) and MVSP v3.21 (Kovach 1998-2012). For cluster analysis based on environmental data, centered and standardized environmental data were classified by the Euclidean distance similarity index. For classification of biotic samples, the Bray-Curtis similarity index on square root transformed data was used. PCA was performed on centered and standardized environmental data of the site groups used in the previous cluster analysis. SIMPER analysis was performed to test differences within faunal composition of groups A, B and C, and I, II, III and IV. Using the SIMPER procedure, dissimilarities

Table 1

General characteristics of the studied springs

Code	Spring	Longitude (E)	Latitude (N)	Altitude (m)	Spring type	Land use
S1	Skadar Lake area, spring "Karuc"	19° 6'20.8"	42°21'29.8"	12	sublacustrine	Lake, village
S2	Skadar Lake area, spring "Sinjac"	19°09'11.8"	42°22'01.6"	9	rheocrene	edge of forest
S3	Podgorica area, spring "Kaluderovo oko"	19°8'58.6"	42°22'28.31"	17	sublacustrine	meadows, edge of forest
S4	Podgorica area, Bandići, spring "Crno oko"	19°9'14.95"	42°29'3.76"	38	limnocrene	village
S5	Podgorica area, Bandići, spring "Vriješko vrelo"	19°10'25.2'	42°29'09.6"	39	limnocrene	village
S6	Podgorica, village Daljam, spring "Kraljičino oko"	19°08'44.2"	42°28'52.3"	44	rheocrene	meadow
S7	Podgorica, spring "Vrela ribnička"	19°17'57.1"	42°26'10.7"	55	rheocrene	urban
S8	Podgorica, Piperi, spring "Studenci"	19°14'35.5"	42°28'59.4"	48	rheocrene	meadow
S9	Podgorica, Piperi, spring "Taban"	19°13'08.5"	42°31'39.3"	89	rheocrene	edge of forest
S10	Danilovgrad, spring „Glava Zete"	18°59'48.7"	42°40'29.5"	78	rheocrene	edge of forest
S11	Danilovgrad, spring „Milojevića vrela"	19°00'40.3"	42°37'56.1"	50	rheocrene	edge of forest
S12	Danilovgrad, spring „Oraška jama"	19°05'33.1"	42°31'52.5"	56	rheocrene	meadow
S13	Podgorica, Mareza I spring on road to Daljam village	19°10'55.6"	42°28'48.2"	38	limnocrene	rocky ground
S14	Podgorica, Mareza II spring on road to Daljam village	19°10'52.5"	42°28'50.8"	40	rheocrene	meadow
S15	Podgorica, Morača river , spring Zlatica	19°17'18.4"	42°28'07.2"	41	rheocrene	riverside
S16	Podgorica region, Kuči, spring "Mosor"	19°18'32.1"	42°27'46.7"	115	rheocrene (piped)	village
S17	Danilovgrad, village Gornji Martinići, spring "Pištet"	19°11'35.5"	42°33'19.7"	194	rheocrene	village
S18	Danilovgrad, village Gornji Martinići, Glizica, spring	19°10'43.9"	42°33'44.8"	204	rheocrene (piped)	village
S19	Podgorica region, Piperi, spring "Studenac"	19°13'40.7"	42°32'25.2"	443	rheocrene (piped)	village
S20	Podgorica, Piperi, spring "Mrtvak"	19°13'21.2"	42°32'39.7"	406	rheocrene (piped)	village
S21	Podgorica, Piperi, spring "Gospodina voda"	19°13'16.0"	42°32'47.1"	405	rheocrene (piped)	village
S22	Podgorica, Piperi, spring "Bitorod"	19°13'59.9"	42°32'02.3"	404	rheocrene (piped)	village
S23	Podgorica, Piperi, spring "Močila"	19°15'46.6"	42°30'23.9"	106	rheocrene (piped)	edge of forest
S24	Danilovgrad, spring Kuplnovo	19° 2'47.1"	42°38'35.3"	516	rheocrene (piped)	village
S25	Podgorica region, Kuči, spring "Fundina"	19°21'52.7"	42°26'42.8"	651	rheocrene (piped)	village
S26	Danilovgrad, Podostrog, spring Šobajići	19° 2'47.1"	42°38'35.3"	516	rheocrene (piped)	village
S27	Nikšić, village Vidrovan, spring "Vukovo Vrelo"	18°56'31.5"	42°51'26.7"	663	rheocrene	village
S28	Podgorica, spring "Manastir Morača"	19°23'26.1"	42°46'00.4"	308	rheocrene	village
S29	Ponikvica Mt., Martinićka Ponikvica, spring I	19°16'01.3"	42°40'28.5"	1419	rheocrene	edge of forest
S30	Lukavica Mt., spring "Babino sicelo"	19°12'54.9"	42°48'15.9"	1607	limnocrene	meadow
S31	Lukavica Mt., spring near Kapetanovo Lake	19°13'40.5"	42°48'46.5"	1706	rheocrene	meadows
S32	Lukavica Mt., spring near Manito Lake	19°14'42.84"	42°48'22.96"	1786	limnocrene	meadow

between and similarities within the above-mentioned groups can be explained with individual species and the composition of Heteroptera assemblages. CCA (ter Braak 1986) was applied to test the influence of environmental variables on the investigated assemblages.

Results

A total of 25 species were found during this study (Table 3). They represented 9 families. The family Gerridae accounted for 32% (8 taxa) of the total number of taxa, followed by Corixidae (six taxa or 24%), and Notonectidae (four taxa or 16%).

During this study, we found thirteen species new to Montenegro: *Ranatra linearis* (Linnaeus, 1758), *Corixa punctata* (Illiger, 1807), *Hesperocorixa parallela* (Fieber, 1860), *Sigara nigrolineata* (Fieber, 1848), *S. lateralis* (Leach, 1817), *S. falleni* (Fieber, 1848), *Notonecta maculata* Fabricius, 1794, *N. meridionalis* Poisson, 1926, *Anisops sardeus* Herrich-Schaeffer, 1849, *Aquarius najas* (De Geer, 1773), *A. paludum* (Fabricius, 1794), *Gerris argentatus* Schummel, 1832, and *G. asper* (Fieber, 1860).

From two to ten taxa were found per spring. The maximum α-diversity (10 species) is found in S2 and S3 – two sublacustrine karst springs in our study. On the other hand, the lowest α-diversity (2 species) was found in S6. The highest frequency was noted for *Hydrometra stagnorum* (present in 15 springs), followed by *Velia* sp. and *Sigara lateralis*. The most abundant species in the material was *Notonecta glauca*.

According to environmental characteristics, 32 investigated springs can be divided into three groups (Fig. 1A). The results of PCA (Fig. 2A) conducted to determine the environmental patterns most clearly separate the springs from group A. These springs are

Table 2

Physical characteristics (spring size – SU and discharge – DI), temperature (TW), substrate composition and aquatic vegetation of 32 investigated springs (S1-S32)

Spring code	Physical characteristics		TW	Substrate					Aquatic vegetation		
	SU	DI		Anoxic mud	clay	sand	gravel	stones	Moss	Macrophyte	Algae
S1	4	4	17.4	2	1	0	0	1	0	1	1
S2	4	3	18.4	1	1	1	0	1	0	1	1
S3	4	3	18.6	2	1	0	0	1	0	1	1
S4	3	2	15.6	2	1	0	0	1	1	3	1
S5	4	4	14.2	1	1	1	1	1	2	2	2
S6	1	2	13.4	0	0	0	1	2	1	1	1
S7	2	2	12.1	0	1	1	1	2	2	1	1
S8	2	2	14.1	1	1	0	1	2	1	2	1
S9	1	1	16.7	0	1	1	1	1	1	0	1
S10	4	4	11	1	0	0	1	2	3	1	1
S11	3	4	12.3	0	1	1	1	2	2	2	1
S12	4	2	10.1	1	0	1	1	2	1	1	1
S13	3	2	13.1	1	1	1	1	1	1	3	1
S14	2	1	12.4	0	1	1	1	2	1	1	1
S15	2	1	13.1	1	0	2	0	1	2	0	1
S16	2	1	16.1	0	1	0	1	3	1	0	1
S17	1	1	17.2	1	0	0	1	2	1	0	1
S18	1	1	14.3	1	1	0	0	2	1	0	1
S19	1	1	12.3	2	2	0	0	2	1	1	1
S20	2	1	15.2	3	1	0	0	1	0	0	1
S21	2	2	13.5	1	1	1	1	1	1	1	1
S22	1	1	16.4	0	0	1	1	2	1	0	1
S23	1	1	16.1	2	0	0	0	2	1	1	1
S24	1	1	14.1	1	1	0	0	1	1	0	1
S25	1	1	13	1	1	1	1	2	1	0	1
S26	1	1	15.1	2	1	0	0	1	1	0	1
S27	4	4	8.4	1	1	1	1	1	2	2	1
S28	3	4	10.1	1	0	1	1	2	1	1	1
S29	1	1	9.2	2	3	0	0	1	1	0	1
S30	4	1	10.1	3	1	0	0	1	1	2	2
S32	1	1	8.3	3	1	0	0	1	0	1	1
S32	2	1	11.3	3	1	0	0	1	2	2	2

characterized by a high content of anoxic mud, clay and algae, a higher altitude and the lowest concentration of gravel and sand.

The assemblages of water bugs from the investigated springs may be divided into four groups (Fig. 1B). The results of PCA (Fig. 2B) showed that species in group I prefer springs with gravel and sandy substrate, enriched with mosses and characterized by a higher discharge. The communities from group IV generally prefer sites with stony bottom.

Table 4 presents taxa mostly associated with each of the site groups and dissimilarity in the taxonomic composition between each of the groups. *Sigara lateralis* is a characteristic representative of assemblages type I, while *Nepa cinerea* is characteristic of assemblages type II. *Velia* sp. and *Gerris argentatus* are characteristic of springs from group III and IV, respectively. Community groups specified in the biotic site classification (I, II, III, IV) are much better defined, have higher internal similarity and are more dissimilar to each other than assemblages of A, B and C groups distinguished in the environmental site classification (Table 4).

ANOVA showed significant differences ($F=5.442$ $p=0.004$) for species richness between assemblages of water bugs from site groups I, II, III and IV. Assemblages of type II (mean 7.3, SD 1.0) were characterized by the highest diversity and were followed by assemblages of type III (mean 4.5, SD 1.35), type I (mean 4.0, SD 1.0 and type IV (mean 3.0, SD 1.41).

One-way ANOVA was used to confirm significant differences in species richness ($F=11.031$ $p=0.000$) between the spring types (sublacustrine, limnocrene and rheocrene springs). The LSD analysis revealed that sublacustrine springs significantly differ ($p=0.000$ and $p=0.001$, respectively) from the two other types of springs, while no significant differences were found between rheocrene and limnocrene springs ($p=0.512$).

Table 3

The occurrence of species in the studied springs

A – abbreviations of the species names. Species new to Montenegro are marked by one asterisk.

Taxa	A	Spring number
Nepomorpha		
Nepidae		
Nepa cinerea Linnaeus, 1758	*Nci*	1,2,3,4,8,11,12
**Ranatra linearis* (Linnaeus, 1758)	*Rli*	2,3,4,8,27,28
Naucoridae		
Ilyocoris cimicoides (Linnaeus, 1758)	*Ici*	2,4
Corixidae		
**Corixa punctata* (Illiger, 1807)	*Cpu*	12,18,20,26
Hesperocorixa linnnei (Fieber, 1848)	*Hli*	1,2,3,27,28
**Hesperocorixa parallela* (Fieber, 1860)	*Hpa*	29,31,32
**Sigara nigrolineata* (Fieber, 1848)	*Sni*	1,3,4,11,17,25
**Sigara lateralis* (Leach, 1817)	*Sla*	1,5,7,10,12,15,21,24,27,28,31,32
Sigara falleni (Fieber, 1848)	*Sfa*	3,4,12,13,16,19,23,25,30
Notonectidae		
Notonecta glauca Linnaeus, 1758	*Ngl*	1,5,7,9,11,13,15,18,22,25,31,32
**Notonecta maculata* Fabricius, 1794	*Nma*	3,5,14,16,20,23,25,28,32
**Notonecta meridionalis* Poisson, 1926	*Nme*	1,2,7,14
**Anisops sardeus* Herrich-Schaeffer, 1849	*Asa*	2
Pleidae		
Plea minutissima Leach, 1817	*Pmi*	1,2,3
Belostomatidae		
Lethocerus patruelis (Stal, 1854)	*Lpa*	1,3,6,7
Gerromorpha		
Hydrometridae		
Hydrometra stagnorum (Linnaeus, 1758)	*Hsa*	1,2,4,8,10,13,14,15,17,22,26,27,29,31,32
Veliidae		
Velia sp.	*Vsp*	9,15,16,18,19,20,21,23,24,25,26,28,30
Gerridae		
**Aquarius najas* (De Geer, 1773)	*Ana*	1, 3,5,11,13,15,17,19,24,25
**Aquarius paludum* (Fabricius, 1794)	*Apa*	11,18,19,22,27,29,30,31
Gerris lacustris (Linnaeus, 1758)	*Gla*	21,27,28,31,32
**Gerris argentatus* Schummel, 1832	*Gar*	13,14,15,24,27
Gerris thoracicus Schummel, 1832	*Gth*	9,19
Gerris costae (Herich-Schaeffer, 1850)	*Gco*	2,3
Gerris odontogaster (Zetterstadt, 1828)	*God*	15,16,17,20,22,24
**Gerris asper* (Fieber, 1860)	*Gas*	4,7,10

The results of CCA analysis (Fig. 3) summarize the main relationship between aquatic bugs and the environment. Axis 1 and axis 2 explained 25.5% and 18.8% of the total variance, respectively. The environmental factors which significantly influence the communities are spring size (explaining 53.88% and 2.16% of the variation on Axis 1 and 2, respectively), discharge (41.73% and 8.76%, respectively) and water temperature (26.73% and 35.52%, respectively).

Axis 1 was positively correlated with the percentage of mosses and algae and negatively correlated with the spring size, discharge and the percentage of macrophytes, Axis 2 was positively correlated with the altitude, and negatively correlated with the water temperature (Fig. 3).

Discussion

Aquatic and semiaquatic Heteroptera are an important component of the spring biocenosis. With some exceptions (e.g. Grandova 2014), however, species composition and spatial patterns of water bugs in the springs have not been previously researched. A total of 25 taxa were recorded in 32 springs situated in the central part of Montenegro. This level of diversity is comparable to that reported by Grandova (2014) in springs of the Ukrainian steppe zone (20 species).

The result of our study showed that the fauna of water bugs in the investigated springs is relatively diverse but the widespread polytopic species (*H. stagnorum, N. glauca* and *S. lateralis*) dominated.

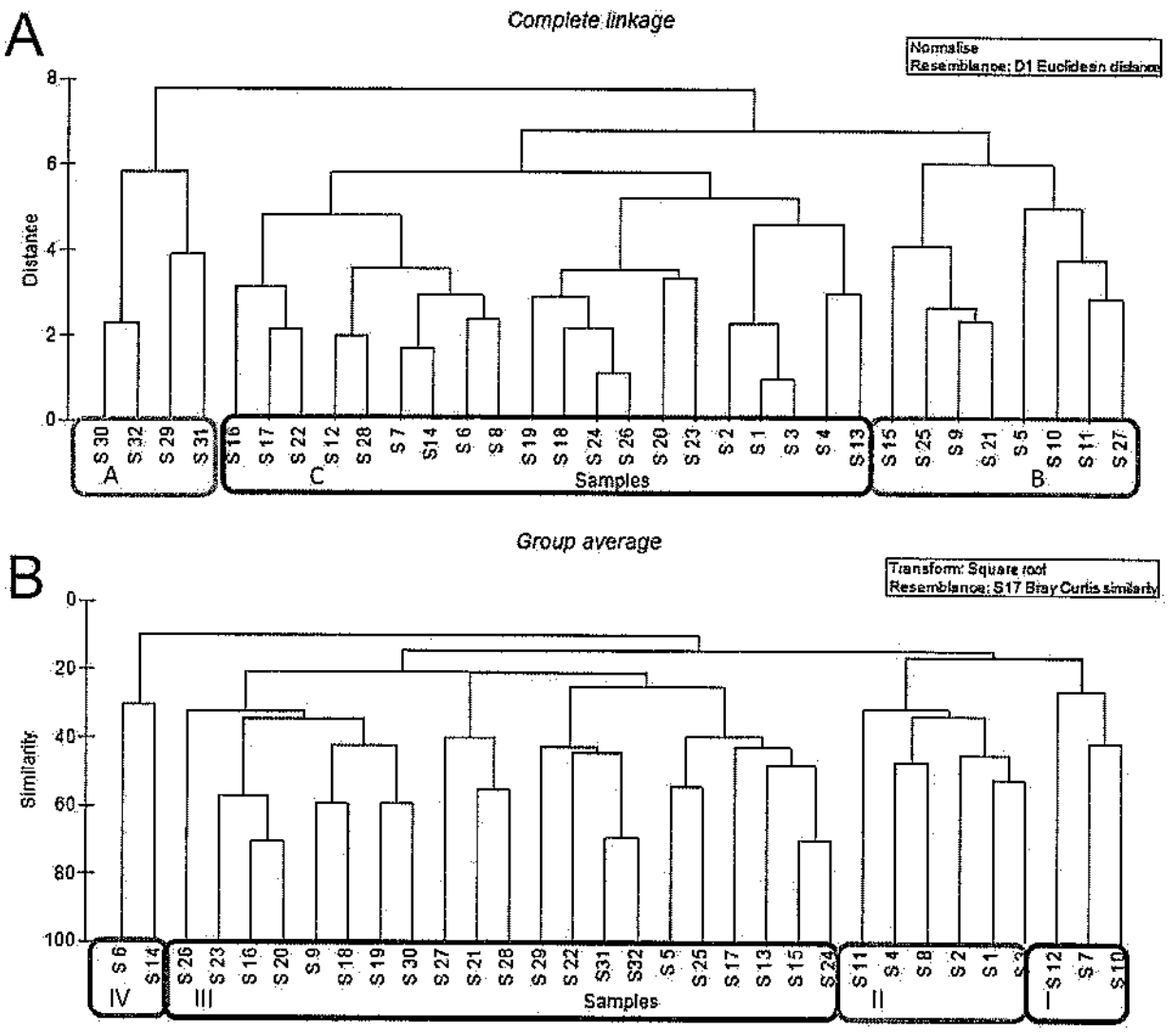

Figure 1

(A) Similarity distance between the sites in groups A, B, and C reflecting environmental characteristics of the investigated springs. (B) Bray-Curtis similarity of water bug assemblages within the investigated springs

However, we could observe some differences in the distribution maxima in different types of spring habitats, even with those common species. *Sigara lateralis* dominated in the assemblages of type I, where 74.52% of the individuals of this species were observed.

Our study in the central part of Montenegro revealed that environmental and faunistic classification of springs based on water bug communities may not correspond with each other. According to environmental characteristics, springs were divided into three groups, while communities of aquatic bug species divide the sites into four groups. The environmental classification indicates anthropogenic impact on the spring habitats. Group C includes springs which are under a strong anthropogenic influence, especially springs S18-S20 and S22-S24 which are piped (spring water emerging from an artificial pipe) and situated in a village. Springs of group A are located at a higher altitude on the muddy bottom, and their water is not used intensively. Olosutean & Ilie (2010b) proved that the lack of anthropogenic activities favors a heterogeneous community of aquatic bug species.

Our study showed that community groups of water bugs specified in the biotic classification of spring habitats are much better defined than the assemblages distinguished in the environmental

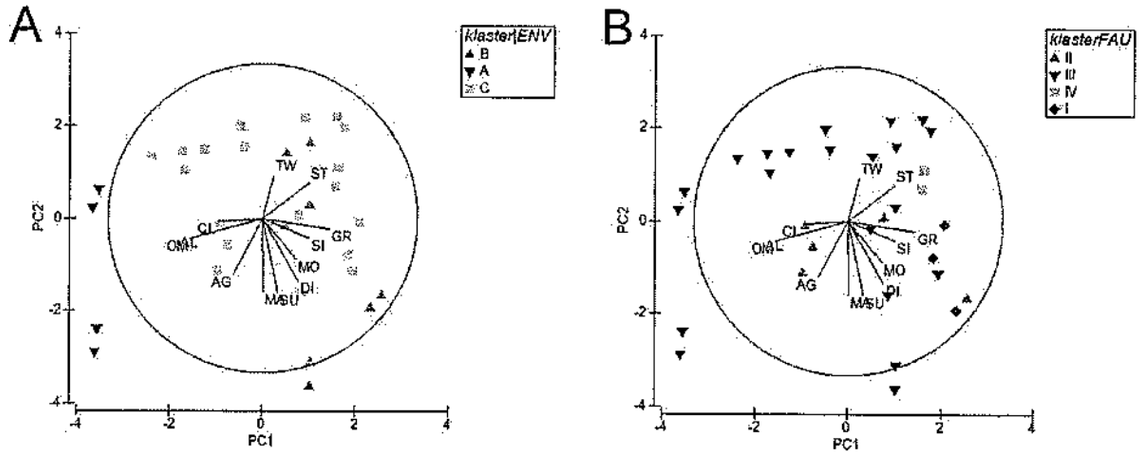

Figure 2

(A) Results of PCA showing environmental characteristics of 32 investigated springs in relation to environmental classification into groups A, B and C. (B) Results of PCA showing environmental characteristics of 32 investigated springs in relation to faunistic classification into groups I, II, II and IV. Abbreviations: TW – water temperature, DI – discharge, SU – spring size, AL – altitude, ST – stones, GR – gravel, SI – sand, CL – clay, OM – organic mud, AG – algae, MO – moss, MA – macrophytes

site classification. It is worth mentioning that our study focused on the factors directly affecting the water bugs in the aquatic environment. However, the formation of water bug assemblages is also affected by other factors (e.g. the type and structure of landscape, geographical location and proximity of nearby sources of immigrants) acting in the terrestrial environment and this can cause a discrepancy in the grouping of sites based on the environmental and faunistic data.

Assemblage I dominated by corixid *Sigara lateralis* seems to be characteristic of large karstic lowland springs (S 12, S7, S10) with stony substrate, enriched

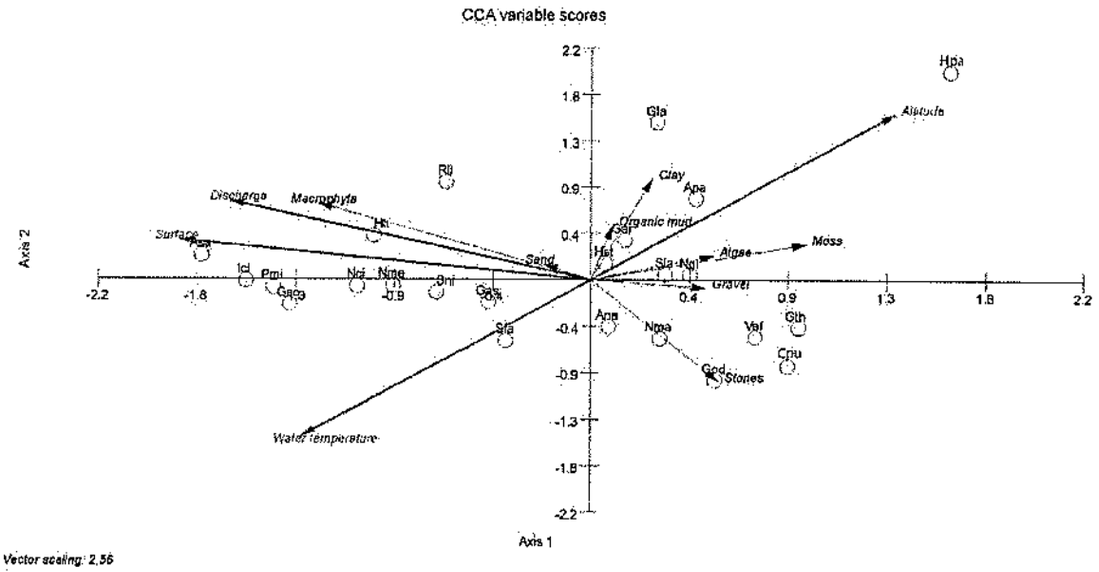

Figure 3

CCA biplot of species and environmental variables based on 32 investigated springs

Table 4

Results of SIMPER analysis for aquatic bug assemblages of site groups A, B and C, and site groups I, II, III and IV

Group A
average similarity: 28.98
Group B
average similarity: 20.41
Group C
average similarity: 15.43
Groups A and B
average dissimilarity = 78.02
Groups A and C
average dissimilarity = 85.97
Groups B and C
average dissimilarity = 81.84
Group I
average similarity: 29.07
Group II
average similarity: 32.48
Group III
average similarity: 23.25
Group IV
average similarity: 26.67
Group I and II
average dissimilarity = 88.21
Group I and III
average dissimilarity = 86.72
Groups I and IV
average dissimilarity = 91.10
Groups II and III
average dissimilarity = 88.70
Groups II and IV
average dissimilarity = 93.80

Species	Av. Abund.	Av. Sim	Groups III and IV average dissimilarity =92.33	Contrib. %	Cum %
Group A					
Apa	1.75	11.32	0.90	39.07	39.07
Hpa	2.25	6.15	0.80	21.22	60.29
Hst	1.25	4.56	0.91	15.75	76.04
Ngl	1.75	4.17	0.41	14.38	90.42
Group B					
Ngl	2.00	6.69	0.60	32.80	32.80
Sla	1.63	5.05	0.63	24.75	57.55
Vaf	1.13	2.72	0.41	13.35	70.90
Ana	0.88	2.26	0.49	11.10	82.00
Hst	0.75	1.46	0.34	7.17	89.17
Nma	0.63	0.68	0.19	3.33	92.50
Group C					
Vaf	1.00	2.86	0.38	18.52	18.52
Hst	0.95	1.93	0.41	12.52	31.03
Ana	0.80	1.39	0.28	9.03	40.07
Sla	0.85	1.38	0.32	8.93	48.99
Nma	0.80	1.14	0.27	7.40	56.39
Ncl	1.00	0.95	0.26	6.18	62.56
Ngl	0.70	0.93	0.22	6.01	68.58
God	0.70	0.91	0.22	5.87	74.45
Sla	0.70	0.82	0.20	5.34	79.79
Cpu	0.50	0.58	0.16	3.79	83.58
Gar	0.35	0.54	0.17	3.48	87.06
Rli	0.45	0.38	0.22	2.44	89.50
Hli	0.70	0.36	0.17	2.35	91.84

Species	Av. Abund.	Av. Sim	Sim/SD	Contrib. %	Cum %
Group I					
Sla	3.67	21.66	1.22	74.52	74.52
Gas	1.33	7.41	0.58	25.48	100
Group II					
Ncl	3.67	16.55	2.02	50.96	50.96
Sni	1.33	3.22	0.70	9.93	60.89
Rli	1.17	2.39	0.75	7.35	68.24
Hst	1.17	2.21	0.75	6.80	75.04
Hli	1.67	1.72	0.48	5.28	80.32
Ana	1.17	1.65	0.45	5.07	85.40
Pmi	1.00	0.99	0.45	3.06	88.46
Icl	1.50	0.99	0.26	3.04	91.50
Group III					
Vaf	1.48	6.79	0.65	29.20	29.20
Hgl	1.43	4.00	0.43	17.21	46.41
Hst	0.95	2.24	0.40	9.65	56.06
Ana	0.76	1.78	0.30	7.66	63.73
Sla	0.76	1.73	0.35	7.46	71.19
Apa	0.76	1.60	0.31	6.88	78.06
Nma	0.67	1.44	0.31	6.18	84.25
God	0.81	1.24	0.26	5.32	89.60
Sfa	0.48	0.89	0.26	3.83	93.43
Group IV					
Gar	2	26.67	/	100	100

with moss. According to Hufnagel et al. (1999), the corixids *Sigara falleni* and *S. lateralis* are characteristic of deeper water bodies. On other hand, communities of type II, characterized by the highest species richness, show preference for limnocrene and sublacustrine springs enriched with muddy substrate and with moderately dense vegetation. Such water bodies were also characterized by relatively higher water temperature.

The preference by most water bugs for sites enriched with muddy substrate and/or dense shoreline vegetation may be explained by the greater possibility of finding hiding places (Skern et al. 2010). *Nepa cinerea* favors shaded habitats with moderately dense vegetation and submerged branches (Peták et al. 2014). According to Hufnagel et al. (1999), the latter species with *Hydrometra stagnorum* and *Geris lacustris* forms an eco-group characteristic of small shallow sites, which is confirmed by CCA results of our study. Skern et al. (2010) indicate that *H. stagnorum* and *G. lacustris* have a preference for low macrophyte cover and higher cover of shoreline plants. The stony substrate also favors *Gerris lacustris* (see: Olosutean, Ilie 2010a).

The results of CCA showed that the first axis is most significantly determined by the spring size, indicating that this factor is the main driver of biotic diversity of water bugs in springs. The importance of dimensions of water bodies in the determination of the spatial pattern of water bug communities was mentioned by several authors (e.g. Macan 1954; Hufnagel et al. 1999; Skern et al. 2010). In our study, spring size reveals a strong gradient along the first axis for the species (*Anisops sardeus, Ilyocoris cimicoides, Plea minutissima*) that prefer larger water bodies. This is consistent with

the studies on water bug communities in lotic and lentic waters, which showed that some species (e.g. *Ranatra linearis, Ilyocoris cimicoides, Plea minutissima* group) favor large and deep water bodies (Hufnagel et al. 1999).

The variability of assemblages along the second axis is mainly determined by the altitude and temperature. Species richness of water bugs tends to increase from uplands to mountain elevations (Tully et al. 1991). In our study, we did not find a significant correlation between the altitude and species richness of water bugs in the investigated springs. CCA indicates that *Hesperocorixa parallela* is associated with springs at higher elevation situated on the shore of mountain lakes.

PCA showed that water temperature varies within assemblage types. Temperature is often associated with other factors such as spring size and shading by aquatic and/or riparian vegetation and might have indirect impact on water bug communities. Shallow water has a relatively higher temperature, while shading can reduce water temperature (Moosmann et al. 2005).

Our study showed that the species-richest springs were sublacustrine springs, followed by limnocrenes and rheocrenes. In the study by Grandova (2014), limnocrenes were the richest in species, fewer species were found in rheocrenes, while helocrenes were sparsely populated. The results of our study revealed that sublacustrine springs exhibited significantly higher diversity in terms of species richness. However, we did not observed significant statistical differences between limnocrenes and rheocrenes. This may suggest that the type of springs is not an important factor determining the species richness of water bugs in springs or its influence is masked by other factors, including the human impact.

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Ecological patterns of water bug (Hemiptera: Heteroptera) assemblages in karst springs: a case study from central Montenegro

by

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Abstract

The composition of water bug communities from 32 springs located in the central part of Montenegro was investigated. Twenty five species were identified, including 13 reported as new to Montenegro. The most common species were *Hydrometra stagnorum* and *Velia* sp. (Gerromorpha). Our study in the central part of Montenegro revealed that environmental and faunistic classification of karstic springs based on water bug communities may not correspond with each other. According to environmental characteristics, springs were divided into three groups, indicating anthropogenic impact on the spring habitats. Water bug communities divided springs into four groups. There are differences in species richness between these four types of water bug assemblages, and among the studied spring types. Results of CCA analysis revealed spring size as the main driver of biotic diversity of aquatic bugs in springs. Our study showed that community groups of water bugs specified in the biotic classification of spring habitats are much better defined than assemblages distinguished in the environmental site classification.

Key words: water bugs, Montenegro, springs, crenobiology, diversity

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Research Paper

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Ecological patterns of Odonata assemblages in karst springs in central Montenegro

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Abstract – Karstic springs are important habitats for maintaining freshwater biodiversity. However, little is known about Odonata larvae assemblages in karstic springs, and studies about the ecological factors that determine species distribution in these habitats are still lacking. In this study the composition of Odonata larvae communities from 91 springs located in the central part of Montenegro was investigated. The richest fauna was found in sublacustrine springs, followed by limnocrenes, while that of the rheocrenes was less rich. The results obtained confirm the main research hypothesis that Odonata larvae assemblages in the karstic springs in the central part of Montenegro were comparably influenced by the environmental parameters acting on the level of individual springs as well as the factors acting at the landscape level. Odonata larvae assemblages divided springs into four groups. On the other hand, the springs could be divided into three groups based on habitat and landscape characteristics. CCA indicates that disturbance factors such as the permanence and directness of human influence on springs for use as drinking water sources are foremost in determining Odonata assemblages at the level of individual springs. The habitat scale considered several factors that influence Odonata assemblages, including altitude and riparian vegetation. This study proves that further odonatological studies in springs should include both types of factors and their interactions.

Keywords: Odonata / Montenegro / Springs / Crenobiology / Diversity

Résumé – Patterns écologiques des assemblages d'Odonates dans les sources karstiques du centre du Monténégro. Les sources karstiques sont des habitats importants pour le maintien de la biodiversité d'eaux douces. Cependant, on sait peu de choses sur les assemblages de larves d'odonates dans les sources karstiques et des études sur les facteurs écologiques qui déterminent la répartition des espèces dans ces habitats font toujours défaut. Dans cette étude, la composition des communautés de larves d'odonates de 91 sources situées dans la partie centrale du Monténégro a été étudiée. La faune la plus riche a été trouvée dans les sources sublacustres, suivies par les limnocrènes, tandis que celle des rhéocrènes était moins riche. Les résultats obtenus confirment la principale hypothèse de recherche selon laquelle les assemblages de larves d'odonates dans les sources karstiques dans la partie centrale du Monténégro étaient influencés par les paramètres environnementaux agissant au niveau de chaque source ainsi que par les facteurs agissant au niveau du paysage. Les assemblages de larves d'odonates ont séparé les sources en quatre groupes. D'ailleurs, les sources pouvaient être divisées en trois groupes en fonction des caractéristiques de l'habitat et du paysage. La CCA indique que des facteurs de perturbation tels que la permanence et l'influence humaine directe sur les sources utilisées comme sources d'eau potable sont essentiels pour déterminer les assemblages d'odonates au niveau de chaque source. À l'échelle de l'habitat plusieurs facteurs influent sur les assemblages d'odonates, dont l'altitude et la végétation riveraine. Cette étude montre que d'autres études odonatologiques dans les sources devraient inclure les deux types de facteurs et leurs interactions.

Mots-clés : Odonata / Monténégro / Sources / Crénobiologie / Diversité

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NAUČNI RADOVI OBJAVLJENI U NACIONALNIM ČASOPISIMA KOJI SE NALAZE NA SCOPUS LISTI

Grosser, C., Pešić, V. & Gligorović, B. (2015a). A checklist of the leeches (Annelida: Hirudinea) of Montenegro. Ecologica Montenegrina, 2(1), 20–28.

[illegible]

Research Article

A checklist of the leeches (Annelida: Hirudinea) of Montenegro

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Material and Methods

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Grosser, C., Pešić, V., Berlajolli, V.& Gligorović, B. (2016).Glossiphonia balcanica n. sp. and Dina prokletijaca n. sp. (Hirudinea: Glossiphonidae, Erpobdellidae) – two new leaches from Montenegro and Kosovo

Ecologica Montenegrina

Research Article

Glossiphonia balcanica n. sp. and *Dina prokletijaca* n. sp. (Hirudinida: Glossiphoniidae, Erpobdellidae) - two new leeches from Montenegro and Kosovo

UČEŠĆA I PREZENTACIJE NA NACIONALNIM I MEĐUNARODNIM SIMPOZIJUMIMA I KONGRESIMA

Vilenica, M., Kulijer, D., & Gligorović, B. 2014. New data on distribution and threats to the populations of Caliaeschna microstigma at the north-western edge of its range. 3rd European Congress on Odonatology - ECOO 2014, Abstract box. Montpellier | France | 7-10 July 2014

New data on distribution and threats to the populations of *Caliaeschna microstigma* at the north-western edge of its range

By Marina VILENICA[1,2,*], Dejan KULIJER[3] & Bogić GLIGOROVIĆ[4]

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The distribution of *Caliaeschna microstigma* (Schneider, 1845) in Europe is small and restricted to the Balkans. As in the last years its populations are declining, the species is classified as Near Threatened (NT) in the European and the Mediterranean Red Lists.

It occurs only in the Mediterranean region inhabiting springs, brooks and small rivers. These habitats are critically endangered by human activities and climate change. In Bosnia and Herzegovina and in Croatia the species reaches its north-western edge of distribution.

As population trends of the species are still insufficiently known, a study on the distribution and threats to the populations of *C. microstigma* in the North-West Balkan region was conducted. The study covered localities in Bosnia and Herzegovina, Croatia and Montenegro, and has revealed more detailed and wider distribution of the species. Its habitat preferences in the researched area were inspected as well. However, it was also recorded that these habitats are highly and primarily endangered by the plans of placing the additional hydro power plants and the water extraction projects. In Croatia the species is classified as Critically Endangered (CR) and strictly protected by the law, while in Bosnia and Herzegovina and in Montenegro it is still considerably undervaluated.

Our work will contribute to the development of monitoring and protection plans and long term conservation of *C. microstigma* in the North-West Balkan countries.

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SPISAK OBJAVLJENIH RADOVA, MEĐU KOJIMA SU I RADOVI SA REZULTATIMA IZ DOKTORSKE TEZE, OBJAVLJENI U MEĐUNARODNIM ČASOPISIMA

POGLAVLJE OBJAVLJENO U MONOGRAFIJI MEĐUNARODNOG ZNAČAJA

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Gligorović, B., Pešić, V. & Gligorović, A. 2015: Fauna of aquatic Heteroptera in springs on the Bjelopavlići plain area. 6th International symposium of ecologists of Montenegro, Programme and abstracts.Ulcinj. 15-18.October 2015

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Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG br. 60/03) i člana 18 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 29.04.2010. godine, donio je

O D L U K U
O IZBORU U ZVANJE

Dr DRAGO MARIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Evolucija, Biogeografija i Metode u ekološkim istraživanjima na **Prirodno-matematičkom fakultetu**.

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STRUČNI RAD

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Učeše u naučno-istraživačkim projektima

1. "Limnološka istraživanja akumulacionog jezera Piva" (1976-1980).
2. "Proučavanje mogunosti razvoja ribarstva u akumulacijama Krupac i Slano i njihovom užem slivnom području" (1978-1980).
3. "Izučavanje mogunosti razvoja i unapredjenja ribolova na Skadarskom jezeru" (1977-1980).
4. Hematološka i parazitološka istraživanja riba Skadarskog jezera i Bokokotorskog zaliva kao značajnih parametara za zaštitu životne sredine i "akvakulturu" (1979-1983). Medjunarodni projekat, Univerzitet u Hamburgu.
5. "Hidrobiološke karakteristike rijeke Morače i njenog sliva" (1980-1983).
6. "Hidrobiološka, antropološka i genetička istraživanja u basenu Skadarskog jezera i problemi njegove zaštite" (1982-1984).
7. "Biološka proučavanja rijeka Tare s posebnim osvrtom na mogunosti prirodnog i industrijskog zagadjenja" (1981-1985).
8. "Biološka i ekonomska valorizacija hidroakululacija i njihovog slivnog područja u Crnoj Gori" (1981-1985).
9. "Iskorišavanje prirodnih potencijala Skadarskog jezera kao izvora hrane i vode za pie i problemi zagadjenja i zaštite" (1981-1985).
10. "Biološka i hemijska proučavanja voda sliva ehotine s posebnim osvrtom na akumulaciju "Otilovići" u uslovima regionalne industrijalizacije" (1983-1987).
11. "Mogunosti razvoja akvakulture na Skadarskom jezeru" (1984-1987). (Međunarodni projekat, USA-Univerzitt u Auburnu).
12. "Hidrobiološka proučavanja životnih zajednica i hidrohemijska istraživanja rijeke Tare i njenih pritoka" (1987-1990).
13. "Integralni sistem za kaveznu proizvodnju salmonidnih riba" (1990-1994).

14. "Biološka proučavanja u slivu rijeke Morače" (1990-1994).
15. "Istraživanja prirodnih karakteristika bazena Skadarskog jezera, u cilju njegove zaštite unapredjenja i racionalnog iskorišavanja" (1991-1994).
16. Praćenje endemičnih, rijetkih i ugroženih vrsta riba u slivu Skadarskog jezere u cilju zaštite biodiverziteta i genofondova Nacionalnog parka (1996-1998).
17. Integrated Monitoring of Skadar Lake/Lake Shkoder (2000-2003), međunarodni projekat u saradnji sa Univerzitet u Haidelbergu i Univerzitet u Skadru.
18. Connaissance de la Biodiversite Ichthyque Endemique du systeme Ohrid-Drim-Lac Skadar 2001-2003) saradnja sa Francuskom i Albanijom (Međunarodni projekat).
19. "EULIMNOS – Integrated Monitoring of Skadar Lake" (HRK-the project leader institution) http//www.eulimnos.org (2002-2004)
20. "Comparative study of fish parasites biodiversity from Kavala (Agean sea), Messolonghi bay (Ionnian sea) and coast of Montenegro (Adriatic sea). (2006-2008) saradnja sa Grčkom, međunarodni projekat -"Uporedna istraživanja biodiverziteta parazita riba sa područja Kavale (Egejsko more), zaliva Messolonghi (Jonsko more) i crnogorskog primorja (Jadransko more)".
21. "Fauna Crne Gore- katalog slatkovodnih riba Crne Gore" (2007-2008).
22. " Istraživanja bioindikatora kontinenoog akvatorijuma Crne Gore" (2007-).
23. Crna Gora u XXI stoljeću-u eri kopetitivnosti: Projekat- Životna sredina i održivi razvoj (Rukovodilac M. Burić), Biodiverzitet (2009-2010) CANU.
24. "Fauna Crne Gore- Fauna slatkovodnih riba Crne Gore" (2010-2012).
25. Monitoring Biodiverziteta u Crnoj Gori za 2012 . Prirodnjački muzej crne Gore – Agencija za zaštitu životne sredine (2013)

Naučno-stručne ekspertize

1. "Stanje ribljeg fonda akumulacije Krupac na koti 612" (1979).
2. "Ribarska osnova voda Nikšia" (HE "Peruica" - Nikši, 1981).
3. "Ribarska osnova Nacionalnog parka "Durmitor" Žabljak (1982).
4. "Hemijski i biološki kvalitet voda rijeke ehotine i nekih njenih pritoka" TE "Pljevlja" (1981-1982).
5. "Ribarska osnova sa analizom hemijskog i biološkog kvaliteta voda rijeke ehotine i njenih pritoka" (SO Pljevlja, 1983).
6. "Program studijskih istraživanja i idejnih rješenja HE "Tara" (profil Tepca) - polazna studija, tema: "Neke biološke karakteristike životnih zajednica" (1985).
7. "Studija životnih zajednica i životnih uslova sliva rijeke Morače u svijetlu izgradnje novog izvora električne energije na rijeci Morači" (1985).
8. "Kompleksno stanje vodotoka i obalnog područja nizvodno od brane HE "Piva" do akumulacije HE "Baina Bašta" (1978-1986).
9. "Program zaštite, unapredjenja i razvoja prirodnih bogatstava i dobara NP "Skadarsko jezero". Bazna studija-ihtiofauna (1987).

Rukovodilac i istraživač u studijama i ekspertizama

1. "Ribarska osnova Pivskog jezera sa pritokama" (1995).
2. "Ribarska osnova sliva rijeke Tare i jezera NP "Durmitor" (1996).
3. Ribarska osnova voda nikšikog regiona (jezera Krupac, Slano, Liverovići i rijeka Zeta) (2003).

4. Formiranje salmonidnih reprocentara za proizvodnju mlađa autohtonih ribljih vrsta (2003).
5. "Ribarska osnova sliva rijeke Morače (rijeka Morača, Cijevna i Zeta)" (2004).
6. "Ribarska osnova sliva rijeke Lim (sa Plavskim jezerom i pritokama)" (2006).
7. "Biološko-ekološka istraživanja endemičnih i ugroženih vrsta salmonida u vodama Crne Gore" (2005-2007).
8. "Ribarska osnova sliva rijeke Ćehotine" (2007).
9. "Ribarska osnova sliva rijeke Pive" (2008-2009).
10. Ribarska osnova za područje opštine Nikšić (2013).
11. Rinarska osnova za sliv gornjeg toka rijeke Tare (opštine Kolašin i Mojkovac), (2014)

Druge stručne aktivnosti:

- Davanje mišljenja i predloga vezanih za ribolov i ribarstvo u Crnoj Gori,
- Davanje mišljenja o zaštiti vodenih ekosistema,
- Učestvovao na izradi zakona o slatkovodnom ribarstvu
- Stručni konsultant kod Ministarstva poljoprivrede, šumarstva i vodoprivrede, Zavoda za zaštitu prirode, JP Nacionalni park "Skadarsko jezero" po pitanjima ribarstva i zaštite životne sredine,
- Radio na izradi tehničko-tehnoloških projekata za uzgoj pastrmki, šaranskih i morskih vrsta riba.
- Radio na izradi više projektnih zadataka vezanih za iskorišavanje prirodnih resursa.
- Bio Predsjednik ili član komisija za ocjenu projekata za izdavanje koncesija, elaborata o uticaju na životnu sredinu i sl.
- Član komisije za ocjenu opravdanosti izgradnje hidroelektrane „Buk Bijela" – 2004.
- Član većeg broja komisija za ocjenu studija o uticaju na životnu sredinu.
- Član komisije za inoviranje planova i programa na Studijskoj grupi za biologiju (bečelor, specijalističke, master i doktorske studije) po novom „Bolonjsko" programu.
- Član komisije za akreditaciju postdiplomskih specijalističkih studija Zaštita životne sredine na metalurško-tehnološkom fakultetu u Podgorici.
- Ekspert – konsultant na Projektu: EAR Project in Montenegro 05mon02: Suport to the Fishery Sector (2007/08)
- Član Odbora za faunu i floru CANU 1998-)
- Član redakcije časopisa "Natura Montenegrina" (2001 -)
- Recenzent u više naučnih radova u domaćim i međunarodnim časopisima
- Član naučnog savjeta JU NP Crne Gore (2007 -)
- Zvanični sudski vještak iz oblasti biologije (2008 -)
- Saradnik u više naučno-popularnih časopisa.
- Član komisije za ocjenu Studija o procjeni uticaja na životnu sredinu za izgradnju hidroelektrana „Buk Bijela" i „Foča" na rijeci Drini republika Srpska i hidroelektrana „Brodarevo 1" i „Brodarevo 2" na rijeci Limu republika Srbija -2013. godina.
- Član stručne ekipe za izradu studije strateška procjena uticaja na životnu sredinu DSL "Mihailovići" – Skadarsko jezero

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Број 86
Подгорица, 21.01.2014 год.

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG, br. 60/03 i Sl.list CG, br. 45/10 i 47/11) i člana 18 stav 1 tačka 3 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 26.09.2013. godine, donio je

O D L U K U
O IZBORU U ZVANJE

Dr JELENA RAKOČEVIĆ bira se u akademsko zvanje **vanredni profesor** Univerziteta Crne Gore za predmete: Alge, gljive i lišajevi (osnovne studije), Hidrobiologija (osnovne studije) i Biocenologija–botanički dio (specijalističke studije), na studijskom programu Biologija **na Prirodno-matematičkom fakultetu**, na period od 5 godina.

R E K T O R
Univerzitet Crne Gore
Prof. dr Predrag Miranović

CURRICULUM VITAE

Personal information:

Name: **Rakocevic Jelena**

Date of birth: 20/ 04/ 1974

Adress: George Washington street, 81000 Podgorica, Montenegro

e-mail: mina.hidrobios@gmail.com

Nationality: Montenegrin

Position:

Assistant Professor, Biology Department, Faculty of Natural Sciences and Mathematics, University of Montenegro, Podgorica

Key qualifications

Algology – taxonomy and ecology of phytoplankton and phytobenthos (especially diatoms) – ecology, biomonitoring, water quality analysis, diatom indices

Education:

Institution (Date from - Date to)	Degree(s) or Diploma(s) obtained:
University of Belgrade - Faculty of Biology, Department of Algology, Mycology and Lichenology (2001 - 2006)	PhD in Biology
University of Belgrade - Faculty of Biology, Department of Algology, Mycology and Lichenology (1997 - 2000)	MSc in Hidrobiology
University of Montenegro - Faculty of Natural Sciences and Mathematics, Biology Department (1992 - 1996)	Graduate degree in Biology

Work experience

Dates	Company	Position	Description
2013 -	Biology Department, Faculty of Natural Sciences and Mathematics, University of Montenegro (www.pmf.ac.me)	Associate professor	Classes in subjects: Hidrobiology, Biocenology, Population Ecology, Algae, Fungi and Lichens
2008-2013	Biology Department, Faculty of Natural Sciences and Mathematics, University of Montenegro (www.pmf.ac.me)	Assistant professor	Classes in subjects: Hidrobiology, Biocenology, Population Ecology, Algae, Fungi and Lichens
1997-2008	Biology Department, Faculty of Natural Sciences and Mathematics, University of Montenegro (www.pmf.ac.me)	Teaching assistant	Exercises in subjects: Algae, Fungi and Lichens, Limnology

Other skills and competences:

- Languages: **English**

  Self-assessment - *European level (*)*:

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

(*) Common European Framework of Reference for Languages

- Official Court expert (field: Ecology) since 2008.
- Reviewer for scientific publications for several international journals
- Knowledge in Microsoft Office™, Adobe PhotoShop, STATSOFT and R.
- Years of experience in many national and international projects related with the environmental monitoring

Participation in projects

International projects:

- **2001-2002** - "The promotion of the networks and the scientific exchanges between the South - Eastern European countries, Skadar Lake, Montenegro, YU" (REC):
  - 2001 - One of the authors in: **Bibliography on Shkodra/Skadar Lake**: http://archive.rec.org/REC/Programs/REREP/Biodiversity/docs/ShkoderBibliography.pdf
  - 2002 – One of the authors in: **Biodiversity database of the Shkodra/Skadar Lake**: http://www.rec.org/REC/Programs/REREP/Biodiversity/docs/ShkoderBiodiversityDB.pdf

- **2002-2004** - "EULIMNOS - Integrated Monitoring of Skadar Lake" (HRK). http://www.eulimnos.org

- **2006-2009** – "Interdisciplinary assessment of water resource management in two transboundary lakes in South Eastern Europe" (DRIMON) http://www.drimon.no/

- **2010-2011** – "An Integrated Strategy to Assess and Evaluate Water Quality of Lake Skadar/Shkodra" (SEE-ERA.NET) http://www.see-era.net/

- **2012** - "DASHI: Intiative for sustainable hydroenergetic in Dinaric Arc – Assessment of ecologicaly acceptable flow for Cijevna River, Montenegro" (WWF MedPO). http://croatia.panda.org/projekti/dashi/

- **2013-2015** - Preserving biodiversity, sharing responsibility – transboundary lake basin management in South-East Europe: *Conservation and sustainable use of biodiversity at Lakes Prespa, Ohrid and Shkodra/Skadar* (CSBL) – GIZ. https://www.giz.de/en/worldwide/20318.html

- **2016-2017** - Assessment of Ecological Status According to the Water Framework Directive - Intercalibration Among Western-Balkan Countries (NIVA) https://lakeohridniva.wordpress.com/

- **2017** - Enabling Transboundary cooperation & Integrated Water Resource Management in the Extended Drin River Basin (DRIN CORDA) – GEF http://drincorda.org/gef-supported-drin-project

National projects:

- 2004 - "Ribarska osnova sliva rijeke Morače (rijeka Morača, Cijevna i Zeta)" - (Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore)

- 2006 - "Ribarska osnova sliva rijeke Lim (sa Plavskim jezerom i pritokama)" - (Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore)

- 2007 - "Ribarska osnova sliva rijeke Ćehotine" - (Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore)

- 2008-2009 - "Ribarska osnova sliva rijeke Pive" (Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore)

-2009 - "Istraživanja bioindikatora kontinentalnog akvatorijuma Crne Gore" (Ministarsvo nauke Crne Gore)

- 2010 - "Ribarska osnova Nikšićkog područja (Slano, Krupac, Liverovići, rijeka Zeta)" (Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore)

- 2010 - "Crna Gora u XXI stoljeću - u eri kompetitivnosti: Projekat- Životna sredina i održivi razvoj" (rukovodilac M. Burić), Biodiverzitet, (CANU, 2010)

- 2015 - "Ribarska osnova sliva gornjeg toka rijeke Tare (opstine Kolasin i Mojkovac)" (Ministarstvo poljoprivrede i ruralnog razvoja Crne Gore)

- 2016 – "Podrška lokalnim zajednicama u implementaciji turističkih praksi zasnovanih na prirodi u okolini Šaskog jezera" (NVO Green Home)

Publications (bibliography)

Scientific articles:

1. Spalević V., Fuštić B., Jovović Z., Dlabac, A., Spalević, B., Rakočević, J., Radunović, M. (**1999**): The "Surface and Distance Measuring" Program. Acta Agriculturae Serbica, Vol. IV, 8: 63-71. ISSN 0354-9542

2. Rakočević-Nedović J. (**2001**): Epiphytic Diatoms of Lake Skadar. Poljoprivreda i Šumarstvo, Vol. 47 (3-4): 127-138. ISSN 0554-5579

3. Rakočević-Nedović J. (**2002**): Structure and Seasonal Dynamic of Epiphtic Diatom Communities in Crnojevica River. Natura Montenegrina, Vol. 1: 41-58. ISSN: 1451-5776

4. Rakočević-Nedović J. (**2002**): Structure and Seasonal Dynamic of Epiphytic Diatom Communities of Plavnica. Natura Montenegrina, Vol. 1: 59-76. ISSN: 1451-5776

5. Rakočević-Nedović J., Hollert, H: (**2005**): Phytoplankton Community and Chlorophyll *a* as Trophic State Indices of Lake Skadar. ESPR – Environ. Sci & Pollut Res 12 (3), 146-152. ISSN: 0944-1344

6. Marić, D., Rakočević J. (**2009**): Hidrobiologija. Univerzitet Crne Gore, Biblioteka biomedicinskih nauka (Pobjeda), Podgorica, 353p.

7. Marić, S., Rakočević, J., Marić, D. (2009): Diversity and distribution of species from the genus Barbus in waters of Montenegro. Natura Montenegrina 9(2), 169-182.

8. Marić, D., Rakočević, J. (2010): Biodiverzitet. U: Crna Gora u XXI stoljeću - u eri kompetitivnosti. Životna sredina i održivi razvoj (Ed. M. Burić). CANU, 73/2, 113-150.

9. Rakočević, J., Perović, S. (2011): Toxicity assessment of Skadar Lake sediments using algal bioassay – preliminary study. Natura Montenegrina 10(4), 507-514.

10. Perović, S., Rakočević, J., Perović, A. (2011): *In vitro* bioassays as diagnostic tools for toxicological effects assessment of polluted environment and triad approach. Natura Montenegrina 10(4), 497-505.

11. Rakočević, J. (2012): Spatial and temporal distribution of phytoplankton in Skadar Lake. Archives of Biological Sciences, 64 (2), 585-595.

12. Rakočević, J. (2012): Summer aspect of phytoplankton community in some Montenegrin lakes: Are there changes after more then two decades? Archives of Biological Sciences, 64 (2), 745-755.

13. Marić, S., Rakočević, J., Marić, D. (2012): Morphological characteristics of barbels (*Barbus, Cyprinidae*) from the waters of Montenegro. Natura Montenegrina 11(2), 79-92.

14. Marić, D., Rakočević, J. (2014): Some Life-History Traits of the Adriatic Brown Trout, *Salmo farioides* (Karaman, 1938) (Salmonidae) from the Morača River (Montenegro). Acta Zoologica Bulgarica, 66 (4): 539-546.

15. Rakočević, J. (2017): Application of epilithic diatoms in the ecological assessment of mountain rivers: contribution to the development of biomonitoring tools for Montenegrin aquatic ecosystems using the case study of the Tara River. Nova Hedwigia (in press).

16. Rakočević, J., Šuković, D., Marić, D. (2017): Distribution and Relationships of Eleven Trace Elements in Muscle of Six Fish Species from Skadar Lake (Montenegro). Turkish Journal of Fisheries and Aquatic Sciences (in press).

International Conferences:

1. Pešić, V., Nikčević, S., Rakočević-Nedović, J., Topalović, A., Vukašinović, V., Mijović, G., Filipović S., Karaman, G. (2002): Water quality of the Skadar lake, Zaštita voda 2002, 78 - 83.

2. Rakocevic-Nedovic J, Mascher F. (2003): Phytoplankton as Bioindicator of Water Quality of Skadar Lake (Abstract). New Blood in Ecotoxicology. Achte

Deutschsprachige Jahrestagung der SETAC Europe-GLB. Heidelberg, 21–23 September 2003. pp. 63.

3. Rakocevic-Nedovic J, Nikcevic S, Mijovic G, Mascher F. (**2003**): Comparative Study of Bacterioplankton and Phytoplankton Activity in Skadar Lake (Abstract). New Blood in Ecotoxicology. Achte Deutschsprachige Jahrestagung der SETAC Europe-GLB. Heidelberg, 21 – 23 September 2003. pp. 62.

4. Mascher F, Rakocevic-Nedovic J, Mijovic S, Erdinger L. (**2003**): *In situ* Monitoring of Chlorophyll and Algal populations in Lake Skadar with Fluorometric methods (Abstract). New Blood in Ecotoxicology. Achte Deutschsprachige Jahrestagung der SETAC Europe-GLB. Heidelberg, 21 – 23 September 2003. pp. 54.

5. Rakocevic-Nedovic J, Hollert, H. (**2004**): Phytoplankton Indices as a Tool for Assessing Lake Skadar Trophy. Abstract Book, II Joint Annual Meeting of SETAC Europe GLB (Society of Environmental Toxicology and Chemistry). Aachen, 6.-8.10.2004. pp. 140.

6. Rakocevic-Nedovic J, Nikcevic S, Mijovic G. (**2004**): Uporedna analiza fitoplanktona i bakterioplanktona Skadarskog jezera. Abstract Book, Days of Microbiologists of Serbia and Montenegro. Herceg Novi, 09 -14.06.2004. pp. 231.

7. Rakocevic-Nedovic J: (**2004**): Estimation of Skadar Lake Trophic status Using Phytoplankton Community. Abstract Book, I International Symposium of the Ecologists of Montenegro. Tivat, 14-18.10.2004. 29-30.

8. Rakocevic-Nedovic J, Kubitza J, Hollert H. (**2005**): Effects of Pore water on Algal Growth, First Attempt to Estimate Toxicity of Skadar Lake Using Algae as Test Organisms. Abstract Book, SETAC Europe 15th Annual Meeting, Lille, 22.-26. May 2005. pp. 174.

9. Rakocevic J., Hummel, E., Hollert, H. (**2006**): Effects of Skadar Lake Sediment-extracts on Growth and Subcellular Structures of *Chlamydomonas reinhardtii*. Abstract Book, SETAC Europe 16th Annual Meeting, Hague, 7-11 May, 2006. pp.45.

10. Perovic, A., Perovic, S., Benjamin Seiler, T., Rocha, P., Neziri, A., Rakocevic, J., Stesevic, D., Bushati, N., Keiter, S., Rastall, A., Erdinger, L., Hollert, H. (**2006**): EULIMNOS project and Integrative Assessment of sediments of the Lake Skadar/Shkodra using a Triad approach. Abstract Book, SETAC Europe 16th Annual Meeting, Hague, 7-11 May, 2006. pp.82.

11. Rakočević, J., Šundić, D., Kubitza, J., Hummel, E., Hollert, H. (**2007**): Estimation of sediment toxicity of Skadar Lake Using Algae as Test Organisms. Abstract Book, SETAC Europe 17th Annual Meeting, Porto (Portugal), 20-24 May, 2007. pp.94.

12. Šundić, D., Rakočević, J., Hollert, H., Karaman, G. (**2007**): Environmental conditions in Skadar Lake indicated by Oligochaete species. Abstract Book, SETAC Europe 17th Annual Meeting, Porto (Portugal), 20-24 May, 2007. pp.85.

13. Rakočević, J. (**2011**): Diverzitet planktonskih algi Skadarskog jezera. Zaštita prirode u 21. Vijeku, Žabljak, Crna Gora, 20-23 Setembar, 2011 pp. 17.

14. Rakocevic, J. (**2015**): Phytobenthos of upper part of Cijevna and Obodska River (Montenegro). Abstract Book, VI International Symposium of the Ecologists in Montenegro (ISEM6), 15-18 October 2015, Ulcinj. pp. 34.

15. Burzanovic, K., Maric, D., Milosevic, D., Rakocevic, J. (**2015**): Estimation of selectivity of fishing gears based on population structure of bleak (*Alburnus scoranza*) in Skadar Lake (MONTENEGRO). Abstract Book, VI International Symposium of the Ecologists in Montenegro (ISEM6), 15-18 October 2015, Ulcinj. pp. 46.

16. Rakocevic, J. (**2016**): Epilithic diatoms of Tara River (Montenegro). Abstract Book, V Congres of Ecologists of R. Macedonia with International Participation, 19-22. October 2016, Ohrid, pp.127.

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Број 2987
Подгорица, 15.12.2013 год.

Ref:
Date,

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG, br. 60/03 i Sl.list CG, br. 45/10 i 47/11) i člana 18 stav 1 tačka 3 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 19.12.2013. godine, donio je

ODLUKU
O IZBORU U ZVANJE

Dr VLADIMIR PEŠIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Invertebrata I, Invertebrata II i Ekologija životinja I, na Prirodno-matematičkom fakultetu.

REKTOR
Prof. dr Predrag Miranović

Prof dr Vladimir Pešić

Biografija

06.09.1973	Rođen u Podgorici, Crna Gora
1980-1988	Osnovna škola u Podgorica
1988-1992	Gimnazija "Slobodan Škerović" u Podgorici
1993-1998	Osnovne studije na Studijskom programu Biologija, Univerzitet Crne Gore
1998-2003	Asistent na Studijskom Programu Biologija Univerzitet Crne Gore
2001	Magistarska teza na Biološkom Fakultetu, Univerzitet u Beogradu, Srbija
2003	Doktorska disertacija na Biološkom Fakultetu, Univerzitet u Beogradu, Srbija: "Taksonomska, ekološka i zoogeografska analiza Hydrachnidia centralnog dijela Balkanskog Poluostrva"
2004-2008	Docent na Studijskom Programu Biologija, Univerzitet Crne Gore, na predmetima: "Zoologija Beskičmenjaka" i "Ekologija Životinja" na osnovnim studijama i na predmetima na magistarskim studijama: "Konzervaciona Biologija", "Principi Održivog Razvoja" i "Krenobiologija i Ekologija podzemnih voda".
2009 –2013	Vanredni Profesor na Studijskom Programu Biologija, Univerzitet Crne Gore
2007 – 2013	Rukovodilac Studijskog Programa Biologija na Univerzitetu Crne Gore
od 2010 – 2016.	Član Senata Univerziteta Crne Gore
od 2013 – Cont.	Redovni Profesor na Studijskom Programu Biologija, Univerzitet Crne Gore
2014 – Cont	Predsjednik Naučnog Odbora Univerziteta Crne Gore

Naučna produkcija

Autor više od 280 radova u međunarodnim časopisima od čega vise od 180 u časopisima koji se nalaze na SCI/SCIE bazi. Otkrio sam i opisao oko 300 vrsta novih za nauku iz svih djelova svijeta.
https://www.researchgate.net/profile/Vladimir_Pesic

Knjiga/Book

Reinhard Gerecke, Terence Gledhill, **Vladimir Pešić**, Harry Smit (2016) Süßwasserfauna von Mitteleuropa, Bd. 7/2-3 Chelicerata. 429 pp. Publisher: **Springer** Berlin Heidelberg. ISBN: 978-3-8274-1893-7.

Monografije u SCI/SCIE časopisima sa Impakt Faktorom/International monograph in SCIE journals with IF

Smit, H. & **Pešić, V.** (2014) Water mites from Mount Kinabalu and the Crocker Range, Borneo, Malaysia (Acari: Hydrachnidia), with the description of 34 new species. **Monograph Zootaxa** 3876 (1): 1–71. Publisher: Magnolia Press (Auckland, New Zealand)

Pešić, V. & Smit H. (2014) Torrenticolid water mites (Acari: Hydrachnidia: Torrenticolidae) from Malaysian Borneo. **Monograph Zootaxa,** 3840 (1): 1-72. Publisher: Magnolia Press (Auckland, New Zealand).

Pešić, V. & Smit H. (2014) Torrenticolid water mites (Acari: Hydrachnidia: Torrenticolidae) from Ghana. **Monograph Zootaxa,** 3820 (1): 1-80. Publisher: Magnolia Press (Auckland, New Zealand).

Pešić, V., Cook, D., Gerecke, R. & Smit H. (2013) The water mite family Mideopsidae (Acari: Hydrachnidia): a contribution to the diversity in the Afrotropical region and taxonomic changes above species level. **Monograph Zootaxa,** 3720 (1): 001–075. ISBN 978-1-77557-274-9 Publisher: Magnolia Press (Auckland, New Zealand)

Pešić, V., Smit H. & Saboori A. (2012) Water mites delineating the Oriental and Palaearctic regions - the unique fauna of southern Iran, with descriptions of one new genus, one new subgenus and 14 new species (Acari: Hydrachnidia). **Monograph Zootaxa** 3330: 1-67. ISBN 978-1-86977-917-7. Publisher: Magnolia Press (Auckland, New Zealand)

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2012–2015: Impact of climatic changes on Biodiversity of the freshwater ecosystems of Montenegro. Project financed by Ministry of Science of Montenegro. Leader of Project.

2008-2011: Aquatic Coleoptera as bioindicator of freshwater ecosystems of Montenegro. Project financed by Ministry of Science of Montenegro. Leader of Project.

Međunarodni projekti/International Projects

2010: Scientific Cooperation and Technology Transfer for the Development of a Fish-based Assessment Method of surface Waters Ecological Status. Institution: Hellenic Centre for Marine Research (Greece) i University of Montenegro (Montenegro). Leader of Project.

2012-2014: Systematic and conservational assesment of freshwater biodiversity of Montenegro. Institution: University of Natural Resources (BOKU), Vienna (Austria), and University of Montenegro (Montenegro). Leader of Montenegrin team.

2015-2016: Meiofauna as an environmental bio-indicator in marine ecosystems of Montenegro and Turkey. University of Montenegro (Montenegro) and University of Sinop (Turkey). Leader of Montenegrin team.

2016-2017. Biodiverzitet ekotona akvatičnih i terestričnih biocenoza Crne Gore i Bosne i Hercegovine. University of Montenegro (Montenegro) and University of Banjaluka. Leader of Montenegrin team.

2016-2020 **COST Action** "*Science and Management of Intermittent Rivers and Ephemeral Streams*". http://www.cost.eu/COST_Actions/ca/CA15113. Member of Managing Commitee.

Udžbenici/University Book

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Mentorstvo/Menthorship and Editorial work

Doktirske disertacije/PhD Disertation

1. Lidija Polović: Morfološke odlike i karakteristike reprodukcije endemičnog guštera *Algyroides nigropunctatus* (Duméril et Bibron, 1839) (Lacertilia: Lacertidae) sa Skadarskog jezera. *Univerzitet Crne Gore, Prirodno-matematički fakultet.* November 2012.
2. Miloje Šundić, Diverzitet i ekologija terestričnih Parasitengona (Acari: Prostigmata) Crne Gore. *Univerzitet Crne Gore, Prirodno-matematički fakultet.* 2014
3. Ana Pavićević: Sezonska dinamika makroinvertebrata Mareze I Rimanića sa posebnim osvrtom na vodene Coleoptere. *Univerzitet Crne Gore, Prirodno-matematički fakultet.* December 2011.

Glavni urednik/Editor-in-Chief
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Članstvo u uređivačkim Odborima/Member of Editorial Bord of the Journals
ZOOKEYS (Editor for water mites) (indexed by SCI)
ACAROLOGIA (indexed by SCI)
ZOOLOGY OF THE MIDDLE EAST (indexed by SCI)
TURKISH JOURNAL OF ZOOLOGY (2010-2015, SCI)
VESTNIK ZOOLOGII
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Nagrade/Awards

2014: Award from Ministry of Sciences in the category: Best Montenegrin scientist in 2014.
2014: Award from University of Montenegro in the category: Best scientist in 2014.

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СЕНАТ УНИВЕРЗИТЕТА
У БЕОГРАДУ

Београд, 22.02.2017. године
06-01 Број: 61202-302/3-17
МЦ

На основу чл. 65. ст. 2. Закона о високом образовању ("Службени гласник РС", број 76/05, 100/07-аутентично тумачење, 97/08, 44/10 и 93/12), чл. 42. ст. 1. тач. 23. и чл. 43. ст. 4. Статута Универзитета у Београду ("Гласник Универзитета у Београду", број 186/15-пречишћени текст и 189/16), чл. 25. ст. 1. и ст. 2. тач. 1. Правилника о начину и поступку стицања звања и заснивања радног односа наставника Универзитета у Београду ("Гласник Универзитета у Београду", број 142/08, 150/09 и 160/11) и Критеријума за стицање звања наставника на Универзитету у Београду ("Гласник Универзитета у Београду", број 183/15-пречишћени текст), а на предлог Изборног већа Биолошког факултета, број: 15/3 од 20.01.2017. године и мишљења Већа научних области природних наука, број: 61202-302/2-17 од 02.02.2017. године, Сенат Универзитета, на седници одржаној 22.02.2017. године, донео је

О Д Л У К У

БИРА СЕ др Љиљана Томовић у звање редовног професора на Универзитету у Београду-Биолошки факултет, за ужу научну област Морфологија, систематика и филогенија животиња.

О б р а з л о ж е њ е

Биолошки факултет је дана 23.11.2016. године у листу „*Данас*" (додатак „*Послови*") објавио конкурс за избор у звање редовног професора, за ужу научну област Морфологија, систематика и филогенија животиња, због истека изборног периода.

Извештај Комисије за припрему извештаја о пријављеним кандидатима стављен је на увид јавности дана 27.12.2016. године преко Стручне службе и сајта Факултета.

На основу предлога Комисије за припрему извештаја о пријављеним кандидатима, Изборно веће Биолошког факултета, на седници одржаној дана 20.01.2017. године, донело је одлуку о утврђивању предлога да се кандидат др Љиљана Томовић изабере у звање редовног професора.

Биолошки факултет је дана 24.01.2017. године доставио Универзитету комплетан захтев за избор у звање на прописаним обрасцима.

Универзитет је комплетну документацију коју је доставио Факултет ставио на web страницу Универзитета дана 26.01.2017. године.

Веће научних области природних наука, на седници одржаној дана 02.02.2017. године дало је мишљење да се др Љиљана Томовић може изабрати у звање редовног професора.

Сенат Универзитета, на седници одржаној дана 22.02.2017. године разматрао је захтев Биолошког факултета и утврдио да кандидат испуњава услове прописане чл. 64. и 65. Закона о високом образовању, чланом 125. Статута Универзитета у Београду, као и услове прописане Критеријумима за стицање звања наставника на Универзитету у Београду, па је донета одлука као у изреци.

ПРЕДСЕДНИК СЕНАТА
Р е к т о р

Академик Владимир Бумбаширевић

Доставити:
- Факултету (2)
- архиви Универзитета
- сектору 06

M34 – SAOPŠTENJE SA MEĐUNARODNOG SKUPA ŠTAMPANO U IZVODU

Pre izbora u zvanje vanrednog profesora:

1. **Tomović, Lj.**, Radojičić, J. & Džukić, G. (1997). Sexual dimorphism in the sand viper, *Vipera ammodytes* L. from western Serbia (Yugoslavia). 3rd World Congress of Herpetology. Book of Abstracts, p. 210. **0.5**
2. Radojičić, J., **Tomović, Lj.** & Džukić, G. (1997). Morphological relationships within fire-bellied toads (*Bombina*, Discoglossidae) in Yugoslavia. 3rd World Congress of Herpetology. Book of Abstracts, p. 166. **0.5**
3. **Tomović, Lj.**, Džukić, G., Radojičić, J. & Kalezić, M. (1999). Variability of morphological characters of sand viper populations (*Vipera ammodytes* L.) from central part of the Balkan peninsula. 10th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 246. **0.5**
4. Radojičić, J., Cvetković, D., **Tomović, Lj.**, Kalezić, M. & Džukić, G. (1999). Sexual dimorphism in fire-bellied toads *Bombina* spp. from central Balkans. 10th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 230. **0.5**
5. Crnobrnja-Isailović, J., **Tomović, Lj.** & Ajtić, R. (2003). Syntopic populations of Orsini's viper (*Vipera ursinii*) and adder (*Vipera berus*) in northeastern Montenegro. 12th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 52. **0.5**
6. Ajtić, R. & **Tomović, Lj.** (2003). Morphological Analysis of Kotschy's Gecko (*Cyrtodactylus kotschyi*, Steindachner, 1870): A Multivariate Study. 12th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 30-31. **0.5**
7. Krizmanić, I., Ajtić, R. & **Tomović, Lj.** (2003). Contribution to Batrachofauna and Herpetofauna of Western Serbia. 2nd Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 174-175. **0.5**
8. **Tomović, Lj.**, Ajtić, R. & Krizmanić, I. (2003). Conservation Problems of Vipers (*Vipera*, Viperidae) in Serbia and Montenegro. 2nd Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 168-169. **0.5**
9. Crnobrnja-Isailović, J., Ajtić, R., Aleksić, I. & **Tomović, Lj.** (2005). Variation of clutch size in meadow viper (*Vipera ursinii macrops*) from eastern Montenegro. 13th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 40-41. **0.5**
10. **Tomović, Lj.**, Ajtić, R., Aleksić, I. & Crnobrnja-Isailović, J. (2005). Morphological characteristics and sexual dimorphism of meadow viper (*Vipera ursinii macrops*) from eastern Montenegro. 13th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 112. **0.5**
11. Ajtić, R., Crnobrnja-Isailović, J. & **Tomović, Lj.** (2005). Nose-horned viper (*Vipera ammodytes*) – Conservation problems in Serbia and Montenegro. 13th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 22-23. **0.5**
12. Sterijovski, B., Ajtić, R., Naumov, B. & **Tomović, Lj.** (2006). Batraho- and Herpetofauna in southern parts of Republic of Macedonia. 2nd International Symposium of Ecologists of the Republic of Montenegro, Book of Abstracts, p. 48. **0.5**
13. Sterijovski, B. & **Tomović, Lj.** (2007). Contribution to the knowledge of the reptile fauna of the Former Yugoslav Republic of Macedonia. 14th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 140. **0.5**
14. Ajtić, R., Crnobrnja-Isailović, J. & **Tomović, Lj.** (2007). Morphological differentiation of mainland populations of the Kotschy's gecko (*Cyrtopodion kotschyi*) from the Balkans and Asia Minor. 14th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 43. **0.5**

15. Sterijovski, B., **Tomović, Lj.**, Ajtić, R. & Crnobrnja-Isailović, J. (2007). Preliminary study of population ecology of an insular population of the nose-horned viper (*Vipera ammodytes*) from Former Yugoslav Republic of Macedonia. 2nd Biology of the Vipers Conference. Book of Abstracts, p. 50. **0.5**
16. **Tomović, Lj.**, Ajtić, R. & Crnobrnja-Isailović, J. (2007). Ontogenic shift of sexual dimorphism in meadow viper (*Vipera ursinii macrops*) from Bjelasica Mt. (Montenegro). 2nd Biology of the Vipers Conference. Book of Abstracts, p. 33. **0.5**
17. Ajtić, R., **Tomović, Lj.** & Crnobrnja-Isailović, J. (2007). Thermal biology and microhabitat preferences of meadow viper (*Vipera ursinii macrops*) from Bjelasica Mt. (Montenegro). 2nd Biology of the Vipers Conference. Book of Abstracts, p. 39. **0.5**
18. Crnobrnja-Isailović, J., Ajtić, R., Aleksić, I. & **Tomović, Lj.** (2007). Population viability analysis of a local population of *Vipera ursinii* in north-eastern Montenegro. 2nd Biology of the Vipers Conference. Book of Abstracts, p. 51 **0.5**
19. Jelić, D., Ajtić, R., Sterijovski, B., Crnobrnja-Isailović, J., Lelo, S. & **Tomović, Lj.** (2010). Distribution and conservation problems of the Vipers in the western and central part of the Balkans. 3rd Biology of the Vipers Conference. Book of Abstracts, p. 8-9. **0.5**
20. Crnobrnja-Isailović, J., Ajtić, R. & **Tomović, Lj.** (2010). Some aspects of venom production and body mass variation in *Vipera ammodytes* kept under laboratory condition. 3rd Biology of the Vipers Conference. Book of Abstracts, p. 36-37. **0.5**
21. **Tomović, Lj.**, Crnobrnja-Isailović, J. & Brito, J. C. (2010). The use of Geostatistics and GIS for Evolutionary History Studies: the case of the nose-horned viper (*Vipera ammodytes*) in the Balkan Peninsula. 3rd Biology of the Vipers Conference. Book of Abstracts, p. 45-46. **0.5**
22. **Tomović, Lj.**, Crnobrnja-Isailović, J., Ajtić, R., Sterijovski, B., Jelić, D., Đorđević, S., Đurakić, M. & Bonnet, X. (2010). Sexual size and shape dimorphism of the Vipers at the Balkans – small, medium and large scale. 3rd Biology of the Vipers Conference. Book of Abstracts, p. 52. **0.5**
23. Ferchaud, A-L., Ursenbacher, S., Luiselli, L., Jelić, D., Halpern, B., *Major*, A., Kotenko, T., Crnobrnja-Isailović, J., **Tomović, Lj.**, Ghira, I., Ioannidis, Y., Arnal, V. & Nontgelard, C. (2011). From South to North: mitochondrial markers reveal an unexpected colonization route for vipers of the *Vipera ursinii* complex in the Palearctic region. 16th Ordinary General Meeting of Societas Europaea Herpetologica. Book of Abstracts, p. 78. **0.5**

Posle izbora u zvanje vanrednog profesora

24. Golubović, A., Arsovski, D. & **Tomović, Lj.** (2012). Habitat configuration affects jumping behavior of the Hermann's tortoise (*Testudo hermanni*). 4th Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 36. **0.5**
25. Sterijovski, B., **Tomović, Lj.** & Ajtić, R. (2012). Contribution to the knowledge of the Reptile fauna and diversity of Macedonia. 4th Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 55-56. **0.5**
26. Iković, V., Pešić, V. & **Tomović, Lj.** (2012). Impact of traffic on herpetofauna and batrachofauna in Bjelopavlići (Montenegro). 4th Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 56. **0.5**
27. **Tomović, Lj.**, Ajtić, R., Djordjević, S., Simović, A., Golubović, A., Andjelković, M., Arsovski, D., Trajčevska, I., Krstić, M., Ballouard, J.-M., Bonnet, X. & Sterijovski, B. (2012). Reptile megalopolis on a small island: Population studies on Reptiles on the island of Golem Grad. 4th Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 57. **0.5**

28. Djordjević, S., Golubović, A., Simović, A., Sterijovski, B., Arsovski, D., Vujović, A., Iković, V., Ajtić, R. & **Tomović, Lj.** (2012). Hermann's tortoise in the central Balkans: basic demographic features and anthropogenic influences. 4th Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 78-79. **0.5**

29. Arsovski, D., Golubović, A., Bonnet, X. & **Tomović, Lj.** (2012). Intriguing reproductive behavior of two contradistinctive populations of *Testudo hermanni boettgeri* – preliminary results. 4th Congress of Ecologists of the Republic of Macedonia, Book of Abstracts, p. 175-176. **0.5**

30. Golubović, A., Arsovski D., **Tomović, Lj.** (2013). Where do ninja tortoise live – Agility variation in Hermann's torotises. 9th "Ecology & Behaviour" Meeting. Book of Abstracts, p. 51. **0.5**

31. Golubović, A., Andjelković, M., Arsovski, D., Djordjević, S., Iković, V., Vujović, A., Bonnet, X. & **Tomović, Lj.** (2013). Tortoise's shell – a blessing and a curse. How tortoises cope with various obstacles? 17th European Congress of Herpetology. Book of Abstracts, p. 115. **0.5**

32. Gvozdenović, S., Pešić, V. & **Tomović, Lj.** (2013). Preliminary population study of dice snake – *Natrix tessellata* (Laurenti, 1768) from Skadar Lake. 5th International Symposium of Ecologists of the Republic of Montenegro, Book of Abstracts and Programme, p. 112-113. **0.5**

33. Golubović, A. & **Tomović, Lj.** (2014). Stuck with rigid armour in a jungle of grass and shrubs – how do tortoises manage? 10th "Ecology & Behaviour" Meeting. Book of Abstracts, p. 43. **0.5**

34. **Tomović, Lj.**, Krizmanić, I., Đorđević, S., Golubović, A. (2015). Results of project of DNA sampling of *Emys orbicularis* in Serbia – conservation issues. 5th International Symposium on *Emys orbicularis*, Book of Abstracts, pp. 39-40. **0.5**

35. **Tomović, Lj.**, Urošević, A., Vukov, T., Ajtić, R., Ljubisavljević, K., Krizmanić, I., Jović, D., Labus, N., Đorđević, S., Kalezić, M. L., Džukić, G. & Luiselli, L. (2015). Threatening levels and extinction risks based on distributional, ecological and life-history datasets (DELH) versus IUCN criteria – example of Serbian reptiles. 1st Balkan Herpetological symposium. Book of Abstracts, p. 74. **0.5**

36. Šukalo, G., Đorđević, S. & **Tomović, Lj.** (2015). Sexual dimorphism, diet and reproduction of the grass snake (*Natrix natrix*) in the region of the marshy-pond ecosystem Bardača (Republic of Srpska, Bosnia and Herzegovina). 1st Balkan Herpetological symposium. Book of Abstracts, pp. 193-194. **0.5**

37. Šukalo, G., Malidža, S., Golub, D., Dmitrović, D., Đorđević, S. & **Tomović, Lj.** (2015). Populaciona istraživanja šarenog daždevnjaka (*Salamandra salamandra*) na području Banja Luke. III Simpozijum biologa i ekologa Republike Srpske, Book of Abstracts, pp. 161-162. **0.5**

38. Šukalo, G., Đorđević, S. & **Tomović, Lj.** (2015). Ekologija bjelouške (*Natrix natrix*) na području močvarnog ekosistema Bardača. III Simpozijum biologa i ekologa Republike Srpske, Book of Abstracts, p. 165. **0.5**

39. Miličić, D., Trajković, J., Pavković-Lučić, S., Savić, T. & **Tomović, Lj.** (2016). Morphological analysis of *Branchipus* sp. from area of Stara Planina Mountains and Pannonian lowlands in Serbia. International Conference of Zoology and Zoonoses, Book of Abstracts, p. 93. **0.5**

NACIONALNE MONOGRAFIJE:

M41 – ISTAKNUTA MONOGRAFIJA NACIONALNOG ZNAČAJA

Posle izbora u zvanje vanrednog profesora:

1. Kalezić, M., **Tomović, Lj.** & Džukić, G. (Urednici) (2015). Crvena knjiga faune Srbije I – Vodozemci. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije, pp. 1-207. (ISBN: 978-86-80877-52-5) 7
2. **Tomović, Lj.**, Kalezić, M. & Džukić, G. (Urednici) (2015). Crvena knjiga faune Srbije II – Gmizavci. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije, pp. 1-265. (ISBN: 978-86-7078-125-2) 7

M44

Posle izbora u zvanje vanrednog profesora:

1. Kalezić, M., **Tomović, Lj.** & Džukić, G. (2015). Crvena knjiga faune Srbije I – Vodozemci. U: Kalezić i sar. (Ured.): Crvena knjiga faune Srbije I – Vodozemci. pp. 17-39. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
2. **Tomović, Lj.** (2015). Principi rada i struktura podataka za Crvenu knjigu. U: Kalezić i sar. (Ured.): Crvena knjiga faune Srbije I – Vodozemci. pp. 43-50. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
3. **Tomović, Lj.** & Lakušić, D. (2015). Staništa vodozemaca u Srbiji. U: Kalezić i sar. (Ured.): Crvena knjiga faune Srbije I – Vodozemci. pp. 53-64. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
4. **Tomović, Lj.** (2015). Struktura tekstova o ugroženim vrstama vodozemaca Srbije. U: Kalezić i sar. (Ured.): Crvena knjiga faune Srbije I – Vodozemci. pp. 123-125. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
5. **Tomović, Lj.**, Kalezić, M. & Džukić, G. (2015). Crvena knjiga faune Srbije II – Gmizavci. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 17-35. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
6. **Tomović, Lj.** (2015). Principi rada i struktura podataka za Crvenu knjigu. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 39-46. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
7. **Tomović, Lj.** & Lakušić, D. (2015). Staništa gmizavaca u Srbiji. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 49-63. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
8. Urošević, A. & **Tomović, Lj.** (2015). Procene ugroženosti gmizavaca Srbije. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 67-81. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
9. **Tomović, Lj.** (2015). Struktura tekstova o ugroženim vrstama gmizavaca Srbije. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 131-133. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
10. **Tomović, Lj.** (2015). *Testudo graeca*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 144-150. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
11. Đorđević, S. & **Tomović, Lj.** (2015). *Dolichophis caspius*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 213-219. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2

12. **Tomović, Lj.** & Džukić, G. (2015). *Elaphe quatuorlineata*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 220-226. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
13. **Tomović, Lj.** & Džukić, G. (2015). *Platyceps najadum*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 227-232. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
14. **Tomović, Lj.** (2015). *Vipera ammodytes*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 233-239. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
15. Ajtić, R. & **Tomović, Lj.** (2015). *Vipera berus*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 240-247. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2
16. **Tomović, Lj.** & Ajtić, R. (2015). *Vipera ursinii*. U: Tomović i sar. (Ured.): Crvena knjiga faune Srbije II – Gmizavci. pp. 248-254. Univerzitet u Beogradu – Biološki fakultet & Zavod za zaštitu prirode Srbije. 2

RADOVI OBJAVLJENI U ČASOPISIMA NACIONALNOG ZNAČAJA:

M51 – RAD U VODEĆEM ČASOPISU NACIONALNOG ZNAČAJA

Pre izbora u zvanje vanrednog profesora:

1. Ajtić, R. & **Tomović, Lj.** (2001). First record of Kotschy's gecko *Cyrtodactylus kotschyi* (Steindachner, 1870) (Gekkonidae, Lacertilia) in FR Yugoslavia. Archives of Biological Sciences 53: 23P-24P. 2

M52 – RAD U ČASOPISU NACIONALNOG ZNAČAJA

Pre izbora u zvanje vanrednog profesora:

1. **Tomović, Lj.**, Ajtić, R., Đoković, Đ. & Čitaković, D. (2000). New record of sharp-snouted rock lizard (*Lacerta oxycephala*) in Montenegro. Ekologija 35: 127-130. 1.5
2. Antović, I., Simonović, P. & **Tomović, Lj.** (2002). The phenetic relationships determination of south Adriatic mullets (Pisces: Mugilidae) by external morphology. Poljoprivreda i šumarstvo 48: 103-105. 1.5

Posle izbora u zvanje vanrednog profesora:

3. Vukov, T. D., Kalezić, M. L., **Tomović, Lj.**, Krizmanić, I., Jović, D., Labus, N. & Džukić, G. (2013). Amphibians in Serbia – distribution and diversity patterns. Bulletin of the Natural History Museum, Belgrade 6: 90-112. 1.5
4. **Tomović, Lj.**, Ajtić, R., Ljubisavljević, K., Urošević, A., Jović, D., Krizmanić, I., Labus, N., Đorđević, S., Kalezić, M. L., Vukov, T. & Džukić, G. (2014). Reptiles in Serbia – distribution and diversity patterns. Bulletin of the Natural History Museum, Belgrade 7: 129-158. 1.5

ZBORNICI SKUPOVA NACIONALNOG ZNAČAJA:

M64 – SAOPŠTENJE SA SKUPA NACIONALNOG ZNAČAJA ŠTAMPANO U IZVODU

Pre izbora u zvanje vanrednog profesora:

1. Mrdak D., Simonović, P. & **Tomović, Lj.** (2001). Ecological characterization of nearshore fish communities at south Adriatic. Naučni skup "Prirodni potencijali kopna, kontinentalnih voda i mora Crne Gore i njihova zaštita. Plenarni referati i izvodi iz saopštenja sa naučnog skupa, p. 127. 0.2

2. Ajtić, R., **Tomović, Lj.** & Krizmanić, I. (2004). Contribution to Batrahofauna and Herpetofauna of Beljanica Mountain in the Eastern Serbia. 1st International Symposium of Ecologists of the Republic of Montenegro, Book of Abstracts, p. 71-72. **0.2**
3. Crnobrnja-Isailović, J., Ajtić, R. & **Tomović, Lj.** (2004). Contribution to Batrahofauna and Herpetofauna of Pčinja River in the Southern Serbia. 1st International Symposium of Ecologists of the Republic of Montenegro, Book of Abstracts, p. 72. **0.2**
4. Crnobrnja-Isailović, J., Ajtić, R. & **Tomović, Lj.** (2005). Prilog poznavanju herpetofaune Stare planine sa okolinom. 8th Symposium on Flora of Southeastern Serbia and neighbouring regions, Book of Abstracts, p. 141. **0.2**

MAGISTARSKE I DOKTORSKE TEZE:

ODBRANJENA DOKTORSKA DISERTACIJA (M71)

Tomović, Lj. (2005). Sistematika i biogeografija poskoka (*Vipera ammodytes* Linnaeus, 1758) (Viperidae, Serpentes). Biološki fakultet Univerziteta u Beogradu, Beograd. **6**

ODBRANJENA MAGISTARSKA TEZA (M72)

Tomović, Lj. (2000). Morfološke odlike poskoka (*Vipera ammodytes*) centralnog dela Balkanskog poluostrva. Biološki fakultet Univerziteta u Beogradu, Beograd. **3**

NAUČNI RADOVI VAN SCI LISTE

Pre izbora u zvanje vanrednog profesora:

1. **Tomović Lj.**, Ljubisavljević, K., Ajtić, R., Aleksić, I. & Crnobrnja-Isailović, J. (2001). New records of the snake-eyed skink *Ablepharus kitaibelii* in Serbia. Biota **2**: 115-117.
2. **Tomović, Lj.**, Radojičić, J., Džukić, G. & Kalezić, M. L. (2002). Sexual Dimorphism of the Sand Viper (*Vipera ammodytes* L.) from the Central Part of Balkan Peninsula. Russian Journal of Herpetology **9**: 69-76.
3. **Tomović, Lj.**, Ajtić, R., Đoković, Đ. & Antić, S. (2004). Records of *Testudo graeca ibera* Pallas, 1814 in Serbia and Montenegro. Herpetozoa **17**: 189-191.
4. Naumov, B. & **Tomović, Lj.** (2005). A Case of Melanism in *Natrix natrix* (Linnaeus, 1758) (Reptilia: Colubridae) in Bulgaria. Acta Zoologica Bulgarica **57**: 253-254.
5. Ajtić, R., **Tomović, Lj.**, Aleksić, I. & Crnobrnja-Isailović, J. (2005). New records of Dalmatian Algyroides (*Algyroides nigropunctatus*, Dumeril et Bibron, 1839) (Lacertidae) in Montenegro with comment of its conservation status. Acta Zoologica Bulgarica **57**: 385-390.
6. Ristić, N., **Tomović, Lj.**, Ajtić, R. & Crnobrnja-Isailović, J. (2006). First record of the four-lined snake *Elaphe quatuorlineata* (Lacépède, 1789) in Serbia. Acta Herpetologica **1**: 135-139.
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8. Turan, D., **Tomović, Lj.** & Pešić, V. (2007). Morphological variation in a common Turkish cyprinid, *Squalius cephalus* across Turkish drainages. Zoology in the Middle East **40**: 63-70.
9. Sterijovski, B., Ajtić, R., **Tomović, Lj.**, Djordjević, S., Djurakić, M., Golubović, A., Crnobrnja-Isailović, J., Ballouard, J-M., Groumpf, F. & Bonnet, X. (2011). *Natrix tessellata* on Golem Grad, FYR of Macedonia: a natural fortress shelters a prosperous snake population. Mertensiella **18**: 298-301.

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10. Turan, D., Pešić, V. & **Tomović, Lj.** (2012). Morphological variation in Turkish *Alburnoides* populations across Turkish water catchment areas. Scripta Scientarium Naturalium, Podgorica **2**: 99-110.
11. Šukalo, G., Đorđević, S., Dmitrović, D. & **Tomović, Lj.** (2012). Introduced fish *Ameiurus nebulosus* (Le Sueur, 1819): hazard to the Grass snake *Natrix natrix* (Laurenti, 1768). Photo note. Hyla herpetological bulletin **2012(2)**: 41-42.
12. Arsovski, D., Ajtić, R., Golubović, A., Trajčeska, I., Djordjević, S., Andjelković, M., Bonnet, X. & **Tomović, Lj.** (2014). Two fangs good, a hundred legs better: juvenile viper devoured by an adult centipede it had ingested. Ecologica Montenegrina **1**: 6-8.
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18. Đorđević, S., Simović, A., Krizmanić, I. & **Tomović, Lj.** (2016). Colour variations in the European tree frog, *Hyla arborea* (Linnaeus, 1758), from two small adjacent ponds in the Vojvodina province, Serbia. Ecologica Montenegrina **5**: 18-21.

OSTALE NAUČNE AKTIVNOSTI

RUKOVOĐENJE PROJEKTIMA BILATERALNE SARADNJE:

Pre izbora u zvanje vanrednog profesora:

1. Projekat: "Impact of habitat-changes on reptile populations". Bilateralni projekat Srbija-Francuska (MNTR-CNRS). Rukovodioci: dr Xavier Bonnet (CNRS, Centre d'Etudes Biologiques de Chizé) & **dr Ljiljana Tomović** (Biološki fakultet Univerziteta u Beogradu), 2009.-2010.

2

UČEŠĆE NA MEĐUNARODNOM PROJEKTU:

Pre izbora u zvanje vanrednog profesora:

1. Projekat: "Population structure, therats and protection of Orsinii viper (*Vipera ursinii macrops*) on Bjelasica Mountain (Montenegro)". SEH Grant "Award In Herpetology 2003". Rukovodilac: dr Jelka Crnobrnja-Isailović. Societas Europaea Herpetologica, 2003.

2

RUKOVOĐENJE NACIONALNIM PROJEKTOM:

Posle izbora u zvanje vanrednog profesora

1. Projekat: "Sakupljanje DNK uzoraka strogo zaštićenih i zaštićenih vrsta gmizavaca koje su predmet ilegalnog sakupljanja iz prirode, nedozvoljenog uzgajanja i trgovine". Rukovodilac: **dr Ljiljana Tomović**. Ministarstvo energetike, razvoja i zaštite životne sredine Republike Srbije, 2014.-2015. 4

UČEŠĆE U NACIONALNOM PROJEKTU:

Pre izbora u zvanje vanrednog profesora:

1. Projekat: "Populaciono-biološki aspekti procesa specijacije". Rukovodilac: prof. dr Nikola Tucić. Ministarstvo za nauku Republike Srbije, 1999.-2000. 1
2. Projekat: "Integrativna istraživanja vodozemaca i gmizavaca centralnog Balkana". Rukovodilac: prof. dr Miloš Kalezić. Ministarstvo za nauku, tehnologiju i razvoj 1623 Republike Srbije, 2002.-2005. 1
3. Projekat: "Monitoring metapopulacionog sistema zelenih žaba (*Rana* synklepton *esculenta*) u jugoistočnom delu Panonske nizije". Rukovodilac: dr Ana Ivanović. Ministarstvo za zaštitu prirodnih bogatstava i životnu sredinu, 2003.-2004. 1
4. Projekat: «Izrada programa istraživanja riba, vodozemaca i gmizavaca za predeo izuzetnih odlika «Veliko ratno ostrvo»». Rukovodilac: dr Predrag Simonović. JKP «Zelenilo», Beograd, 2007.-2009. 1
5. Projekat: "Evolucija u heterogenim sredinama". Rukovodilac: dr Aleksej Tarasjev. Ministarstvo nauke i zaštite životne sredine, 2006.-2010. 1
6. Projekat: "Metodologija poboljšanja tehnologije uzgoja poskoka (*Vipera ammodytes*) radi potrebe ekspolatacije zmijskog otrova kao strateške sirovine". Rukovodilac: dr Jelka Crnobrnja-Isailović. Ministarstvo za nauku i tehnološki razvoj, 2008.-2009. 1

Posle izbora u zvanje vanrednog profesora:

7. Projekat: "Diverzitet vodozemaca i gmizavaca Balkana: evolucioni aspekti i konzervacija". Rukovodilac: dr Miloš Kalezić. Ministarstvo prosvete i nauke, 2011.- 1

RECENZIJA PUBLIKACIJE KATEGORIJE M11/M12/M41:

Posle izbora u zvanje vanrednog profesora:

Recenzent istaknute nacionalne monografije «Fauna repatih vodozemaca Srbije» autori: dr Georg Džukić, dr Tanja Vukov & dr Miloš Kalezić. 0.5

RECENZIJA (UZ DOKAZ) PUBLIKACIJE KATEGORIJE M20/M50/M60:

Posle izbora u zvanje vanrednog profesora:

Acta Zoologica Bulgarica (za 2015, 2016) 3
Amphibia-Reptilia (za 2014, 2015, 2016) 4.5
Biodiversity and Conservation (za 2016) 1.5
Endangered Species Research (za 2015) 1.5
Herpetologica (za 2016) 1.5

IZBORNI USLOVI

1. Stručno-profesionalni doprinos

3. Predsednik ili član organizacionog ili naučnog odbora na naučnim skupovima nacionalnog ili međunarodnog nivoa

Pre izbora u zvanje vanrednog profesora

- Član naučnog odbora 3rd Biology of the Vipers Conference održanog u gradu Calci (Pisa, Italija), od 31. 03. do 02. 04. 2010. godine.

Posle izbora u zvanje vanrednog profesora:

- Član naučnog odbora 3rd Symposium of Biologists and Ecologists of Republika Srpska održanog u Banjoj Luci (Republika Srpska) od 12. 11. do 14. 11. 2015. godine.
- Član naučnog odbora 5th Congress of Ecologists of the Republic of Macedonia with International Participation održanog na Ohridu (Republika Makedonija) od 19. 10. do 22. 10. 2016. godine.

2. Doprinos akademskoj i široj zajednici

2. Predsednik ili član organa upravljanja, stručnog organa ili komisija na fakultetu ili univerzitetu u zemlji ili inostranstvu

Pre izbora u zvanje vanrednog profesora

Član komisije za izbor u naučno zvanje:

- Biljane Stojković, Biološki fakultet, Univerzitet u Beogradu, 2008
- Sonje Đorđević, Biološki fakultet, Univerzitet u Beogradu, 2012

Posle izbora u zvanje vanrednog profesora:

Član Veća doktorskih studija Biološkog fakulteta Univerziteta u Beogradu (Odluka Nastavno-naučnog veća Biološkog fakulteta 15/407 od 05. 09. 2016. godine, mandat tri godine).

Član komisije za izbor u istraživačko zvanje:

- Marka Anđelkovića, Institut za biološka istraživanja „Siniša Stanković", Univerzitet u Beogradu, 2014

Član komisije za izbor u naučno zvanje:

- Ane Golubović, Biološki fakultet, Univerzitet u Beogradu, 2015
- Tanje Vukov, Institut za biološka istraživanja „Siniša Stanković", Univerzitet u Beogradu, 2015

Član komisije za izbor u zvanje nastavnika:

- Biološki fakultet, Unverzitet u Beogradu, 2013
- Biološki fakultet, Unverzitet u Beogradu, 2015

3. Saradnja sa drugim visokoškolskim, naučnoistraživačkim ustanovama, odnosno ustanovama kulture ili umetnosti u zemlji i inostranstvu

1. Postdoktorsko usavršavanja ili studijski boravci u inostranstvu

Pre izbora u zvanje vanrednog profesora
Bugarska – 3 nedelje – 2000, 2002 – Nacionalni Prirodno-naučni muzej u Sofiji
Makedonija – 3 nedelje – 2000, 2002 – Nacionalni Prirodno-naučni muzej u Skoplju
Slovenija – 2 nedelje – 2002 – Prirodoslovni muzej u Ljubljani
Austrija – 4 nedelje – 2003, 2006 – Naturhistorisches Museum Wien
Bosna i Hercegovina – 2 nedelje – 2002 – Zemaljski Muzej u Sarajevu
Francuska – 2 nedelje – 2008, 2009, 2010 – Centre d'Études Biologiques de Chizé – Centre National de la Recherche Scientifique

3. Radno angažovanje u nastavi ili komisijama na drugim visokoškolskim ili naučnoistraživačkim ustanovama u zemlji ili inostranstvu, ili zvanje gostujućeg profesora, ili istraživača.

Pre izbora u zvanje vanrednog profesora
Angažovanje u nastavi (docent) na Univerzitetu Crne Gore, na Prirodno-matematičkom fakultetu u Podgorici, na Studijskom programu Biologija, na predmetima Sistematika i uporedna anatomija kičmenjaka I i Sistematika i uporedna anatomija kičmenjaka II, u školskoj 2007/2008. godini.

Posle izbora u zvanje vanrednog profesora
Angažovanje u nastavi (vanredni profesor) na Univerzitetu u Banjoj Luci, na Prirodno-matematičkom fakultetu u Banjoj Luci, na Studijskim programima Biologija i Ekologija i zaštita životne sredine, na predmetima Zoologija hordata I i Zoologija hordata II, u školskoj 2014/2015. godini.

Pre izbora u zvanje vanrednog profesora
Član komisije za izbor u zvanje docenta:
- Poljoprivredni fakultet, Univerzitet u Beogradu, 2007
- Prirodno-matematički fakultet, Univerzitet u Prištini, 2012

Posle izbora u zvanje vanrednog profesora
Član komisije za izbor u zvanje saradnika u nastavi:
- Prirodno-matematički fakultet, Univerzitet u Banjoj Luci, 2012

Član komisije za izbor u zvanje asistenta:
- Prirodno-matematički fakultet, Univerzitet u Novom Sadu, 2014

Član komisije za izbor u zvanje vanrednog profesora:
- Prirodno-matematički fakultet, Univerzitet u Prištini, 2012

CITIRANOST RADOVA

Na osnovu baza podataka Web of Science i Scopus 2000 – 2016. godine, 36 radova kandidata je ukupno citirano **207** puta u 92 časopisa.

Prema bazi podataka Web of Science, 2000 – 2016. godine, vrednost Hiršovog indeksa (**h-index**) za dr Ljiljanu Tomović iznosi **8**.

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2. Ferchaud, A.-L., Ursenbacher, S., Cheylan, M., Luiselli, L., Jelić, D., Halpern, B., Major, A., Kotenko, T., Keyan, N., Behrooz, R., Crnobrnja-Isailović, J., **Tomović, Lj.**, Ghira, I., Ioannidis, Y., Arnal, V. & Montgelard, C. (2012). Journal of Biogeography	17
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4. Sotiropoulos, K., **Tomović, Lj.**, Džukić, G. & Kalezić, M. L. (2001). Herpetological Journal	10
5. Ballouard J-M., Ajtić, R., Balint, H., Brito, J. C., Crnobrnja-Isailović, J.,Desmonts, D., ElMouden, H., Erdogan, M., Feriche, M., Pleguezuelos, J. M., Prokop, P., Sánchez, A., Santos, X., Slimani, T., **Tomović, Lj.**, Uşak, M., Zuffi, M. & Bonnet, X. (2013). Anthrozoös	10
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8. Radojičić, J. M., Cvetković, D. D., **Tomović, Lj.** M., Džukić, G. V. & Kalezić, M. L. (2002). Folia Zoologica	5
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12. **Tomović, Lj.**, Crnobrnja-Isailović, J. & Ajtić, R. (2004). Amphibia-Reptilia	4
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20. Miličić, D., Đorđević, S., **Tomović, Lj.** & Pavković-Lučić, S. (2013). North-Western Journal of Zoology	3
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25. Mezzasalma, M., Dall'Asta, A., Loy, A., Cheylan, M., Lymberakis, P., Zuffi, M., **Tomović, Lj.**, Odierna, G. & Guarino, F. (2015). Zoologica Scripta	2
26. Tomović Lj., Ljubisavljević, K., Ajtić, R., Aleksić, I. & Crnobrnja-Isailović, J. (2001). Biota	1
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29. Turan, D., **Tomović, Lj.** & Pešić, V. (2007). Zoology in the Middle East	1
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Journal of Biogeography	7
Toxicon	7
Behavioral Ecology and Sociobiology	6
Zoological Studies	6
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Applied Ecology and Environmental Research	1
Asian Herpetological Research	1
Biodiversity and Conservation	1
Canadian Journal of Zoology	1
Central European Journal of Biology	1
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Comptes Rendus - Biologies	1
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Saudi Journal of Biological Sciences		1
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- Denoel, M., Duguet, R., Džukić, G., Kalezić, M. & Mazzotti, S. (2001). Biogeography and ecology of paedomorphosis in *Triturus alpestris* (Amphibia, Caudata). Journal of Biogeography 28: 1271-1280.
- Denoel, M., Džukić, G. & Kalezić, M. (2005). Effects of widespread fish introduction on paedomorphic newts in Europe. Conservation Biology 19: 162-170.
- Sotiropoulos, K., Eleftherakos, K., Džukić, G., Kalezić, M. L., Legakis, A. & Polymeni, R. M. (2007). Phylogeny and biogeography of the alpine newt *Mesotriton alpestris* (Salamandridae, Caudata), inferred from mtDNA sequences. Molecular Phylogenetics and Evolution 45: 211-226.
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доцент

На основу члана 65. Закона о високом образовању («Службени гласник РС» број 76/2005, 100/2007 – аутентично тумачење, 97/2008, 44/2010 и 93/2012) и члана 16. Правилника о поступку стицања звања и заснивања радног односа наставника Универзитета у Нишу («Гласник Универзитета у Нишу» број 2/08), **НАУЧНО-СТРУЧНО ВЕЋЕ ЗА ПРИРОДНО-МАТЕМАТИЧКЕ НАУКЕ** на седници одржаној 16.09.2013. године донело је следећу

О Д Л У К У
о избору у звање наставника

Члан 1.

Др Ана Савић бира се у звање доцент за ужу научну област Екологија и заштита животне средине на Природно-математичком факултету у Нишу.

Члан 2.

Одлуку доставити др Ани Савић, Природно-математичком факултету у Нишу и архиви Универзитета у Нишу.

О б р а з л о ж е њ е

На основу одлуке декана Природно-математичког факултета у Нишу објављен је конкурс за избор наставника у звање доцент за ужу научну област Екологија и заштита животне средине на Природно-математичком факултету у Нишу. Конкурс је објављен у публикацији Националне службе за запошљавање „Послови" дана 05.06.2013. године. На објављени конкурс пријавио се један кандидат: др Ана Савић.

Одлуком Научно-стручног већа за природно-математичке науке број 8/17-01-007/13-012 од 01.07.2013. године именована је Комисија за писање извештаја о пријављеним кандидатима на конкурсу у следећем саставу: Јасмина Крпо-Ћетковић, доцент Биолошког факултета у Београду (ужа научна област: Екологија, биогеографија и заштита животне средине), др Снежана Пешић, доцент Природно-математичког факултета у Крагујевцу (ужа научна област: Екологија, биогеографија и заштита животне средине) и др Предраг Јакшић, редовни професор Природно-математичког факултета у Нишу (ужа научна област: Зоологија).

Комисија за писање извештаја је 24.07.2013. године доставила Природно-математичком факултету у Нишу извештај, у коме је утврдила предлог да се др Ана Савић изабере у звање доцент.

Изборно веће Природно-математичког факултета у Нишу на седници одржаној 04.09.2013. године утврдило је:

- оцену резултата научног и истраживачког рада кандидата,
- оцену резултата које је кандидат постигао у обезбеђивању наставног подмлатка,
- оцену ангажовања кандидата у развоју наставе и развоју других делатности Факултета и
- оцену резултата педагошког рада кандидата.

На истој седници Изборног већа Природно-математичког факултета у Нишу која је одржана 04.09.2013. године утврђен је и Предлог одлуке о избору др Ане Савић у звање доцент.

Природно-математички факултет у Нишу доставио је Научно-стручном већу за природно-математичке науке документацију прописану чланом 14. Правилника о поступку стицања звања и заснивања радног односа наставника Универзитета у Нишу (извештај Комисије, Предлог одлуке Изборног већа Факултета, оцене Изборног већа Факултета).

Имајући у виду сву неопходну документацију предвиђену Законом о високом образовању, Научно-стручно веће за природно-математичке науке донело је одлуку којом се др Ана Савић бира у звање доцент за ужу научну област Екологија и заштита животне средине на Природно-математичком факултету у Нишу.

ПОУКА О ПРАВНОМ ЛЕКУ:

Учесници конкурса имају право приговора на ову одлуку Сенату Универзитета у Нишу, у року од 15 дана од дана достављања ове Одлуке. Приговор се подноси преко Природно-математичког факултета у Нишу и одлаже извршење одлуке.

НСВ број 8/17-01-009/13-027
У Нишу, 16. 09. 2013. године

ПРЕДСЕДНИК НАУЧНО-СТРУЧНОГ ВЕЋА ЗА ПРИРОДНО-МАТЕМАТИЧКЕ НАУКЕ

Проф. др Иван Манчев

РЕКТОР УНИВЕРЗИТЕТА У НИШУ

Проф. др Драган Антић

БИОГРАФИЈА И БИБЛИОГРАФИЈА

А) Биографија

Општи подаци:

Име, средње слово и презиме: Ана В. Савић
Датум и место рођења: 26.08.1978. Скопље, Р Македонија

Образовање:

2002 дипломирани биолог смера Заштита животне средине, просечна оцена 9,31
2012 Одбрањена докторска дисертација под насловом "Еколошка анализа заједнице макрозообентоса реке Нишаве"

Стручно усавршавање:

Запослење:

2004 асистент-приправник за научну област Зоологија на Природно-математичком факултету Универзитета у Нишу
2010 асистент за ужу научну област Зоологија на Природно-математичком факултету Универзитета у Нишу
2013 доцент за ужу научну област Екологија и заштита животне средине на Природно-математичком факултету Универзитета у Нишу

Професиналне активности:

2011 Aquatic Ecosystem Health and Management Society (AEHMS), члан
2003 Биолошко друштво Др Сава Петровић, члан
2005
2010 Symposium on the Flora of Southeastern Serbia and Neighbouring Regions, члан
2013 организационог одбора
2016

Наставна активност:

Тренутно је предавач на предметима: Хидробиологија, Лимнологија, Основи екологије животиња, Екологија животиња и Абиотичка својства водених екосистема. У ранијем периоду асистент на предметима: Екологија животиња са зоогеографијом, Основе екологије животиња, Биоиндикатори и биоиндикације, Морфологија и систематика кичмењака, Морфологија и систематика бескичмењака.

Курсеви:

Freshwater assessment: developing tools for classifying and evaluating rivers and lakes for conservation and management. 5th to 8th December 2005, Novi Sad.

Zoology teaching in Nice (France): from decrease to renewal. 7th March, 2007. TEMPUS JEP Project "Higher education reform of biological sciences (H.E.R.B.S.)", Beograd.

Пројекти

2012 Установљавање центра за биолошки и еколошки мониторинг лотичких екосистема града Ниша BIOEKOCEN

2013 Утицај наночестица титанијум диоксида (nano-TiO2) на екологију и биодиверзитет акватичних макроинвертебрата у референтним екосистемима. Координатор: Б. Јовановић (DFG (German Research Foundation). Број пројекта JO1134/2-1. (2013)(Initiation of International Research Collaboration with the developing countries: Impact of titanium dioxide nanoparticles (nano-TiO2) on the ecology and biodiversity of aquatic macroinvertebrates in pristine ecosystems. Principal Investigator: B. Jovanović(2013)).

2014/2015 Ноћ Истраживача, „Science in Motion for Friday Night Commotion 2014-2015" (SCIMFONICOM 2014-15, EU project H2020-MSCA-NIGHT-633376).

2015/2016 Establishing Conservation Management of Salt Marshes in Serbia Based on Monitoring of Macroinvertebrate community. The Rufford Small Grants for Nature Conservation.

2016/2017 Координатор, Ноћ Истраживача, „Road to Friday of Science-„ReFocus" (Бр. пројекта: 722341 – ReFocus - CSA,EU project H2020-MSCA-NIGHT-2016)

Страни језици:

енглески и руски

Б) Библиографија:

Б1. . Рад објављен у часопису међународног зн ачаја значаја (М21)

1. Jovanović B.,Milošević Dj., Stojković-Piperac M. & Savić A. (2016). In situ effects of **titanium dioxide** nanoparticles on community structure of freshwater benthic macroinvertebrates. Environmental Pollution 213:278-282 http://www.sciencedirect.com/science/article/pii/S0269749116301294

Б2. Рад објављен у часопису међународног зн ачаја значаја (М22)

1. Savić A., Ranđelović, V., Đorđević, M., Karadžić, B., Đokić, M. & Krpo-Ćetković, J. (2013). The influence of environmental factors on the structure Caddisfly (Trichoptera) assemblage in the Nišava River (Central Balkan Peninsula). Knowledge and Management of Aquatic Ecosystems 409 (03), http://www.kmae-journal.org/articles/kmae/pdf/2013/02/kmae120130.pdf
2. Pešić, V., Asadi, M., Cimpean, M., dabert, M., Esen, Y., Gerecke, R., Martin, P., **Savić, A.**, Smit, H., Stur, E. (2017). Six species in one: evidence of cryptic speciation in the

Hygrobates fluviatilis complex (Acariformes, Hydrachnidia, Hygrobatidae). Systematic & Applied Acarology 22 (9): 1327-1377

Б3. Рад објављен у часопису међународног зн ачаја значаја (М23)

1. Savić A. Ranđelović, V., Đorđević, M. & Pešić, V. (2016). Ecological study of fresh water snails (Mollusca: Gastropoda) assemblage in the Nišava River (Central Balkan Peninsula). Acta Zoologica Bulgarica 68(2): 235-242 http://www.acta-zoologica-bulgarica.eu/downloads/acta-zoologica-bulgarica/2016-01-articles-accepted.pdf

2. Savić, A., Dmitrović, D., & Pešić, V. (2017).Ephemeroptera, Plecoptera and Trichoptera assemblage of karst springs in relation to environmental factors: a case study in central Bosnia and Herzegovina. Turkish Journal of Zoology 41: 119-129

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Б3. Рад објављен у часопису националног значаја (М53)

1. Urošević, V., Savić, A. (1996/97). Algae of the Lepenac springs on the Šar-planina Mt. University Thought, Publication in Natural Sciences, Priština, 3(1): 23-32.

Б4. Рад саопштен на научном скупу међународног значаја, штампан у целости (М33)

1. Savić, A. (2007). Slatkovodni beskičmenjaci Balkanskog poluostrva u međunarodnim listama ugroženih vrsta. Proceedings of 9th Symposium on the Flora of Southeastern Serbia and Neighbouring Regions, 253-259.
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Б4а. Рад саопштен на научном скупу међународног значаја, штампан у изводу (М34)

1. Ranđelović, V., Zlatković, B. & Savić, A. (2004). Vertical differentiation of aquatic and moor vegetation of Vlasinsko jezero Reservoir. 1st Symposium of Ecologists of the Republic of Montenegro, Tivat, 14-18 October 2004, Book of Abstracts: 33-34.
2. Savić, A., Krpo-Ćetković, J., Brankvić, S. & Randjelović, V. (2010). Zavisnost primarne produkcije i mase perifitona od sredinskih uslova u reci Nišavi. 10th Symposium on the Flora of Southeastern Serbia and Neighbouring Regions; Lake Vlasina, Serbia, Book of Abstracts: 43.
3. Savić A., Ranđelović, V., Krpo-Ćetković, J. (2010). Seasonal variability in community structure and habitat selection of mayflies (Ephemeroptera) in the Nišava river (Serbia). Second Balkan Conference on Biology, Plovdiv, Bulgaria, Book of Abstracts: 87.
4. Nikolić,N., Ranđelović, J., Milošević, Đ., Stojković-Piperac, M., Savić, A. (2013). Qualitative and quantitative composition of Ephemeroptera community in lotic systems of urban and suburban areas: the role of environmental factors (City of Niš, southeastern Serbia) 11th Symposium on the Flora of Southeastern Serbia and Neighbouring Regions; Lake Vlasina, Serbia, Book of Abstracts: 128.
5. Vasov, I., Vulić, I., Milošević, Đ., Stojković-Piperac, M., Savić, A. (2013). Community composition of trichoptera (Caddisfly): how environmental factors affect community structure in lotic systems of urban area (City of Niš, southeastern Serbia) 11th Symposium on

the Flora of Southeastern Serbia and Neighbouring Regions; Lake Vlasina, Serbia, Book of Abstracts: 129-130.

6. Rakić, A., Aleksić, B., Stojković-Piperac, M., Milošević, Đ., Savić, A. (2013). Macroinvertebrate community structure and their utility in water quality assesment of lotic ecosystems in urban and suburban area (City of Niš, southeastern Serbia) 11th Symposium on the Flora of Southeastern Serbia and Neighbouring Regions; Lake Vlasina, Serbia, Book of Abstracts: 129.
7. Savić A. & Đorđević, M. (2015): Ecological analysis of freshwater leech assemblage (Hirudinea: Clitellata) in the Nišava river. 6th International syposium of ecologist of Montenegro, Ulcinj, Montenegro, Book of Abstracts: 47.

УНИВЕРЗИТЕТ У БЕОГРАДУ

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СЕНАТ УНИВЕРЗИТЕТА
У БЕОГРАДУ

Београд, 22.02.2017. године
06-01 Број: 61202-302/3-17
МЦ

На основу чл. 65. ст. 2. Закона о високом образовању ("Службени гласник РС", број 76/05, 100/07-аутентично тумачење, 97/08, 44/10 и 93/12), чл. 42. ст. 1. тач. 23. и чл. 43. ст. 4. Статута Универзитета у Београду ("Гласник Универзитета у Београду", број 186/15-пречишћени текст и 189/16), чл. 25. ст. 1. и ст. 2. тач. 1. Правилника о начину и поступку стицања звања и заснивања радног односа наставника Универзитета у Београду ("Гласник Универзитета у Београду", број 142/08, 150/09 и 160/11) и Критеријума за стицање звања наставника на Универзитету у Београду ("Гласник Универзитета у Београду", број 183/15-пречишћени текст), а на предлог Изборног већа Биолошког факултета, број: 15/3 од 20.01.2017. године и мишљења Већа научних области природних наука, број: 61202-302/2-17 од 02.02.2017. године, Сенат Универзитета, на седници одржаној 22.02.2017. године, донео је

О Д Л У К У

БИРА СЕ др Љиљана Томовић у звање редовног професора на Универзитету у Београду-Биолошки факултет, за ужу научну област Морфологија, систематика и филогенија животиња.

О б р а з л о ж е њ е

Биолошки факултет је дана 23.11.2016. године у листу „*Данас*" (додатак „*Послови*") објавио конкурс за избор у звање редовног професора, за ужу научну област Морфологија, систематика и филогенија животиња, због истека изборног периода.

Извештај Комисије за припрему извештаја о пријављеним кандидатима стављен је на увид јавности дана 27.12.2016. године преко Стручне службе и сајта Факултета.

На основу предлога Комисије за припрему извештаја о пријављеним кандидатима, Изборно веће Биолошког факултета, на седници одржаној дана 20.01.2017. године, донело је одлуку о утврђивању предлога да се кандидат др Љиљана Томовић изабере у звање редовног професора.

Биолошки факултет је дана 24.01.2017. године доставио Универзитету комплетан захтев за избор у звање на прописаним обрасцима.

Универзитет је комплетну документацију коју је доставио Факултет ставио на web страницу Универзитета дана 26.01.2017. године.

Веће научних области природних наука, на седници одржаној дана 02.02.2017. године дало је мишљење да се др Љиљана Томовић може изабрати у звање редовног професора.

Сенат Универзитета, на седници одржаној дана 22.02.2017. године разматрао је захтев Биолошког факултета и утврдио да кандидат испуњава услове прописане чл. 64. и 65. Закона о високом образовању, чланом 125. Статута Универзитета у Београду, као и услове прописане Критеријумима за стицање звања наставника на Универзитету у Београду, па је донета одлука као у изреци.

ПРЕДСЕДНИК СЕНАТА
Р е к т о р
Академик Владимир Бумбаширевић

Доставити:
- Факултету (2)
- архиви Универзитета
- сектору 06

CURRICULUM VITAE – Ljiljana Tomović

KRETANJE U SLUŽBI:

1. Godina izbora u zvanje asistenta pripravnika: 1996.
2. Godina izbora u zvanje asistenta (uključujući i reizbore): 2000. (reizbor, 2004.)
3. Godina izbora u zvanje docenta (uključujući i reizbore): 2006. (reizbor, 2011.)
4. Godina izbora u zvanje vanrednog profesora: 2012.

OBLASTI ISTRAŽIVANJA:

Morfologija i sistematika kičmenjaka, herpetologija, filogeografija, populaciona biologija, reproduktivna biologija, odlike životne istorije, etologija, faunistika, zoogeografija, konzervaciona biologija, biodiverzitet herpetofaune.

NASTAVNI RAD

OSNOVNE NASTAVNE AKTIVNOSTI

UDŽBENICI, SKRIPTA I PRAKTIKUMI:

OBJAVLJEN UDŽBENIK

Pre izbora u zvanje vanrednog profesora:

Kalezić, M. & **Tomović, Lj.** (2007). Hordati. NNK Internacional, Beograd, pp. 1-416. (ISBN: 978-86-83635-63-4) **20**

Pešić, V., Crnobrnja-Isailović, J. & **Tomović, Lj.** (2009). Principi ekologije. Univerzitet Crne Gore, Podgorica, pp. 1-123. (ISBN: 978-86-7664-073-7) **20**

OBJAVLJEN PRAKTIKUM ILI ZBIRKA ZADATAKA

Pre izbora u zvanje vanrednog profesora:

Simonović, P., **Tomović, Lj.**, Radojičić, J., Krizmanić, I. & Marić, S. (2004). Sistematika Vertebrata – praktikum. NNK International, Beograd, pp. 1-111. (ISBN: 86-83635-35-X) **14**

Marić, S., Krizmanić, I., **Tomović, Lj.**, Simonović, P. (2006). Morfologija hordata – praktikum (CD izdanje). Biološki fakultet Univerziteta u Beogradu, Beograd, pp. 1-469. (ISBN: 86-7078-039-9) **14**

Pešić, V. & **Tomović, Lj.** (2010). Praktikum iz ekologije. Univerzitet Crne Gore, Podgorica, pp. 1-108. (ISBN: 978-86-7664-094-2) **14**

RECENZIRANA SKRIPTA

Pre izbora u zvanje vanrednog profesora:

Kalezić, M. & **Tomović, Lj.** (2003). Hordati – skripta. III izdanje. Biološki fakultet Univerziteta u Beogradu, Beograd, pp. 1-383. **10**

Tomović, Lj. & Kalezić, M. (2011). Hordati – biologija grupa (CD izdanje). Biološki fakultet Univerziteta u Beogradu, Beograd, pp. 1-684. (ISBN: 978-86-7078-081-1) **10**

MENTORSTVO / KOMENTORSTVO:

ODBRANJENA DOKTORSKA DISERTACIJA:

Pre izbora u zvanje vanrednog profesora:

1. **Sonja Djordjević** (2012). «Polni dimorfizam šumske kornjače (*Testudo hermanni*) centralnog dela Balkanskog poluostrva». Komisija: **dr Ljiljana Tomović** (mentor), dr Xavier Bonnet (mentor), dr Jelka Crnobrnja-Isailović, dr Ana Ivanović, dr Miloš Kalezić. Biološki fakultet Univerziteta u Beogradu. **6**

Posle izbora u zvanje vanrednog profesora:

2. **Metodija Velevski** (2013). «Odlike životne istorije i distribucije bele kanje *Neophron percnopterus* u Republici Makedoniji». Komisija: **dr Ljiljana Tomović** (mentor), dr José Antonio Donázar, dr Ana Ivanović. Biološki fakultet Univerziteta u Beogradu. **12**
3. **Dušan Jelić** (2013). «Viperidae Hrvatske i okolnih područja, sa posebnim naglaskom na *Vipera ursinii* Bonaparte 1835 (Squamata, Viperidae) – distribucija, ekologija, genetička varijabilnost i zaštita» Komisija: **dr Ljiljana Tomović** (mentor), dr Milorad Mrakovčić (mentor), dr Zoran Tadić, dr Luca Luiselli, dr Mladen Kerovec. Prirodoslovno-matematički fakultet Sveučilišta u Zagrebu. **6**
4. **Ana Golubović** (2014). «Funcionalno-morfološke i etološke karakteristike šumske kornjače (*Testudo hermanni*)». Komisija: **dr Ljiljana Tomović** (mentor), dr Xavier Bonnet (mentor), dr Sonja Djordjević, dr Ana Ivanović, dr Sofija Pavković-Lučić. Biološki fakultet Univerziteta u Beogradu. **6**

ODBRANJENA MAGISTARSKA TEZA:

Posle izbora u zvanje vanrednog profesora:

1. **Šukalo Goran** (2012). «Morfološka varijabilnost i populacione karakteristike ribarice (*Natrix tessellata*) na području donjeg toka rijeke Vrbanje». Komisija: **dr Ljiljana Tomović** (mentor), dr Dragojla Golub (mentor), dr Dragan Mikavica. PMF Univerziteta u Banjoj Luci. **4**

ODBRANJEN DIPLOMSKI ILI MASTER RAD:

Pre izbora u zvanje vanrednog profesora:

1. **Ivana Lepoev** (2006). «Diverzitet bezrepih vodozemaca (Anura) na odabranim zagađenim lokacijama u okolini Pančeva». Komisija: dr Jelka Crnobrnja-Isailović (mentor), **dr Ljiljana Tomović** (mentor). Biološki fakultet Univerziteta u Beogradu. **2**
2. **Nikola Kolundžić** (2006). «Seksualni dimorfizam morfoloških karakteristika tri vrste guštera roda *Podarcis* u uslovima sintopije u regionu reke Pčinje (Srbija)». Komisija: **dr Ljiljana Tomović** (mentor), dr Jelka Crnobrnja-Isailović. Biološki fakultet Univerziteta u Beogradu. **4**
3. **Aleksandar Urošević** (2007). «Varijabilnost morfoloških odlika i morfološka diferencijacija populacija zidnog guštera (*Podarcis muralis*) u Srbiji». Komisija: **dr Ljiljana Tomović** (mentor), dr Jelka Crnobrnja-Isailović. Biološki fakultet Univerziteta u Beogradu. **4**
4. **Marko Anđelković** (2011). «Uporedna analiza morfološke varijabilnosti i polnog dimorfizma ribarice (*Natrix tessellata*) iz dve populacije sa područja Republike Makedonije i Republike Srbije». Komisija: **dr Ljiljana Tomović** (mentor), Sonja Đorđević. Biološki fakultet Univerziteta u Beogradu. **4**
5. **Nataša Nikolić** (2012). «Reprodukcija zmija». Komisija: **dr Ljiljana Tomović** (mentor), Sonja Đorđević. Biološki fakultet Univerziteta u Beogradu. **4**

Posle izbora u zvanje vanrednog profesora:

6. **Aleksandra Rohalj** (2014). «Diverzitet batraho i herpetofaune Obedske bare». Komisija: **dr Ljiljana Tomović** (mentor), dr Imre Krizmanić, dr Saša Marić. Biološki fakultet Univerziteta u Beogradu. **4**
7. **Jasna Rajić** (2016). «Analiza rodentofaune Poćute». Komisija: **dr Ljiljana Tomović** (mentor), dr Saša Marić. Biološki fakultet Univerziteta u Beogradu. **4**

UČEŠĆE U KOMISIJAMA:

ZA ODBRANU DOKTORSKE DISERTACIJE:

Pre izbora u zvanje vanrednog profesora:

1. **mr Dragana Miličić** (2007). «Morfološka varijabilnost i taksonomski status populacija roda *Branchipus* Schaeffer 1766 (Branchipoda, Crustacea) na teritoriji Srbije». Komisija: dr Brigita Petrov (mentor), dr Aleksandar Ostojić, **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 4
2. **Jean-marie Ballouard** (2010). «Especes charismatiques, especes locales et serpents en Education a l'environnement». Komisija: dr Didier Bouchon, dr Stephen J. Mullin, dr Luca Luiselli, dr Catherine Souty-Grosset, **dr Ljiljana Tomović**, dr Xavier Bonnet (mentor). Universite de Poitiers, Francuska. 4
3. **Milena Cvijanović** (2010). «Evolucija velikih mrmoljaka, *Triturus cristatus* superspecies (Salamandridae, Caudata): odlike životne istorije i ontogenija oblika». Komisija: dr Ana Ivanović (mentor), dr Miloš Kalezić, dr Georg Džukić, **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 4
4. **Ana Pavićević** (2011). «Sezonska dinamika makroinvertebrata Mareze i Rimanića sa posebnim osvrtom na vodene koleoptere». Komisija: dr Vladimir Pešić (mentor), dr Drago Marić, dr Sreten Mandić, dr Srećko Ćurčić, **dr Ljiljana Tomović**. Odsjek za biologiju, PMF Univerziteta Crne Gore. 4
5. **Aleksandar Urošević** (2012). «Polni dimorfizam glavenog skeleta lacertidnih guštera». Komisija: dr Katarina Ljubisavljević, dr Ana Ivanović, **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 4

Posle izbora u zvanje vanrednog profesora:

6. **mr Lidija Polović** (2012). «Morfološke odlike i karakteristike reprodukcije endemičnog guštera *Algyroides nigropunctatus* (Dumeril & Bibron, 1839) (Lacertilia: Lacertidae) sa Skadarskog jezera» Komisija: dr Vladimir Pešić (mentor), dr Gordan Karaman, dr Sreten Mandić, dr Katarina Ljubisavljević, **dr Ljiljana Tomović**. Odsjek za biologiju, PMF Univerziteta Crne Gore. 4
7. **Jelena Gavrić** (2015). «Biomarkeri oksidacionog stresa i koncentracija metala u odabranim tkivima belouške (*Natrix natrix*) i ribarice (*Natrix tessellata*) sa područja Obedske bare i Pančevačkog rita» Komisija: dr Slađan Pavlović (mentor), dr Siniša Đurašević (mentor), dr Nebojša Jasnić, **dr Ljiljana Tomović**, dr Zorica Saičić. Biološki fakultet Univerziteta u Beogradu. 4

ZA ODBRANU MAGISTARSKE TEZE:

Pre izbora u zvanje vanrednog profesora:

1. **Nela Vešović-Dubak** (2008). «Procena abundantnosti populacija najznačajnijih vrsta ptica iz roda *Anas* i *Aythya* (Anatidae) na Skadarskom jezeru». Komisija: dr Vladimir Pešić (mentor), dr Marijana Krivokapić, **dr Ljiljana Tomović**. Odsjek za biologiju, PMF-a, Univerzitet Crne Gore, Podgorica. 3
2. **Rastko Ajtić** (2009). «Morfološke, biogeografske i ekološke odlike Kočijevog gekona (*Cyrtodactylus kotschyi* Steindachner, 1870 Gekkonidae) sa kopnenog dela areala». Komisija: dr Jelka Crnobrnja-Isailović (mentor), dr Vladimir Ranđelović, **dr Ljiljana Tomović**. Odsek za biologiju i ekologiju, PMF Univerziteta u Nišu. 3

Posle izbora u zvanje vanrednog profesora:

3. **Slađana Gvozdenović** (2013). «Morfološka varijabilnost i populaciono-ekološke karakteristike ribarice (*Natrix tessellata*) na području Skadarskog jezera». Komisija: dr Vladimir Pešić (mentor), dr Drago Marić, **dr Ljiljana Tomović**. Odsjek za biologiju, PMF-a, Univerzitet Crne Gore, Podgorica. 3
4. **Milica Dajović** (2013). «Morfometrijska analiza i polni dimorfizam crvendaća (*Erithacus rubecula* L.) na području Srbije». Komisija: dr Saša Marić (mentor), **dr Ljiljana Tomović**, dr Sonja Đorđević, dr Saša Marinković. Biološki fakultet Univerziteta u Beogradu. 3

ZA ODBRANU DIPLOMSKOG ILI MASTER RADA:

Pre izbora u zvanje vanrednog profesora:

1. **Saša Marić** (2000). "Morfološka varijabilnost pastrmke (*Salmo trutta* m. *fario*) Godljevačke reke". Komisija: dr Predrag Simonović (mentor), **mr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
2. **Nadežda Stefanović** (2001). "Fenetički odnosi populacija pastrmke (*Salmo trutta*) i mladice (*Hucho hucho*)". Komisija: dr Predrag Simonović (mentor), **mr Ljiljana Tomović**, Saša Marić. Biološki fakultet Univerziteta u Beogradu. 1
3. **Nina Krstonijević** (2002). "Morfološka varijabilnost pastrmke (*Salmo trutta* m. *fario* L.) Zeta, Buna i Tara". Komisija: dr Predrag Simonović (mentor), **mr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
4. **Goran Sekulić** (2002). "Prilog poznavanju ornitofaune Makiškog rita". Komisija: dr Saša Marinković (mentor), **mr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
5. **Stefan Skorić** (2002). "Uloga i značaj vetruške (*Falco tinnunculus*) u Beogradu". Komisija: dr Saša Marinković (mentor), **mr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
6. **Biljana Macura** (2006). «Diverzitet gmizavaca Nacionalnog parka Đerdap». Komisija: dr Jelka Crnobrnja-Isailović (mentor), **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
7. **Branka Čubrilović** (2006). «Variranje uzajamnog ograničavanja nekih osobina životne istorije u evropskim populacijama živorodnog guštera (*Zootoca vivipara*, Von Jacquin, 1787)». Komisija: dr Jelka Crnobrnja-Isailović (mentor), **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
8. **Marija Radovanović** (2006). «Uticaj ekoloških faktora na evoluciju živog sveta i biološku raznovrsnost». Komisija: dr Jelka Crnobrnja-Isailović (mentor), **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
9. **Dragana Milojković** (2006). «Uporedna analiza diverziteta gmizavaca (Reptilia) Nacionalnih parkova Đerdap, Durmitor i Kopaonik». Komisija: dr Jelka Crnobrnja-Isailović (mentor), **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1
10. **Nenad Smiljković** (2008). «Diverzitet herpetofaune Gornje Pčinje sa okolinom». Komisija: dr Jelka Crnobrnja-Isailović (mentor), dr Vladimir Randelović, **dr Ljiljana Tomović**. Odsek za biologiju i ekologiju, PMF Univerziteta u Nišu. 1
11. **Branko Botić** (2009). «Uticaj dohrane na populaciju beloglavog supa *Gyps fulvus* u specijalnom rezervatu «Klisura reke Gornja Trešnjica»». Komisija: dr Saša Marinković (mentor), **dr Ljiljana Tomović**. 1
12. **Jelena Krstić** (2009). «Zmije Balkanskog poluostrva». Komisija: dr Dragana Miličić (mentor), **dr Ljiljana Tomović**, dr Predrag Simonović. Biološki fakultet Univerziteta u Beogradu. 1

Posle izbora u zvanje vanrednog profesora:

13. **Nemanja Mišić** (2013). «Genetička diferencijacija populacija potočne pastrmke (*Salmo trutta*) Republike Tatarstan - Ruska Federacija». Komisija: dr Saša Marić (mentor), **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu. 1

DRŽANJE NASTAVE NA KURSEVIMA:

Pre izbora u zvanje vanrednog profesora:

1. Uporedna morfologija i sistematika hordata (osnovne studije) (1996.-2007.) 2
2. Uporedna morfologija Vertebrata (osnovne studije) (1996.-2007.) 2
3. Sistematika i filogenija životinja (osnovne studije) (1998.-2007.) 2
4. Sistematika i filogenija hordata (osnovne studije) (2008.-2011.) 2
5. Biologija odabranog taksona 1 – gmizavci (2007.-2011.) 2
6. Biologija odabranog taksona 2 – gmizavci (2007.-2011.) 2
7. Biologija odabranog taksona 3 – gmizavci (2007.-2011.) 2
8. Molekularna sistematika (doktorske studije) (2006.-2011.) 6
9. Uzorkovanje i priprema materijala – gmizavci (doktorske studije) (2007.-2011.) 6
10. Populaciona i evoluciona biologija odabrane grupe (doktorske studije) (2007.-2011.) 6
11. Specijalni kurs faunistike (doktorske studije) (2007.-2011.) 6
12. Specijalni kurs morfol., sistem. i filog. (doktorske studije) (2007.-2011.) 6

Posle izbora u zvanje vanrednog profesora:

1. Sistematika i filogenija hordata (osnovne studije) (2012.-) 2
2. Biologija odabranog taksona 1 (master studije) (2012.-) 4
3. Biologija odabranog taksona 2 (master studije) (2012.-) 4
4. Evolucija hordata (master studije) (2012.-) 6
5. Molekularna sistematika (doktorske studije) (2012.-) 6
6. Populaciona i evoluciona biologija odabrane grupe (doktorske studije) (2012.-) 6
7. Specijalni kurs faunistike (doktorske studije) (2012.-) 6
8. Specijalni kurs morfologije, sistematike i filogenije (doktorske studije) (2012.-) 6

OSTALE NASTAVNE AKTIVNOSTI

RECENZIJA UDŽBENIKA KATEGORIJE M90:

Pre izbora u zvanje vanrednog profesora:

«Osnovi evolucione morfologije sa praktikumom» autori: dr Miloš Kalezić & dr Ana Ivanović 3

Posle izbora u zvanje vanrednog profesora:

«Osnovi biospeleologije» autori: dr Ivo Karaman, dr Slobodan Makarov & dr Mladen Horvatović 3

RECENZIJA OSTALIH PUBLIKACIJA KATEGORIJE M90:

Posle izbora u zvanje vanrednog profesora:

«Funkcijska morfologija i morfološke adaptacije – praktikum» autori: dr Ana Golubović & dr Ana Ivanović. 1

NAUČNO-ISTRAŽIVAČKI RAD

OSNOVNE NAUČNE AKTIVNOSTI

RADOVI OBJAVLJENI U ČASOPISIMA MEĐUNARODNOG ZNAČAJA:

M21A – RAD U VRHUNSKOM MEĐUNARODNOM ČASOPISU

Posle izbora u zvanje vanrednog profesora:

1. Ferchaud, A.-L., Ursenbacher, S., Cheylan, M., Luiselli, L., Jelić, D., Halpern, B., Major, A., Kotenko, T., Keyan, N., Behrooz, R., Crnobrnja-Isailović, J., **Tomović, Lj.**, Ghira, I., Ioannidis, Y., Arnal, V. & Montgelard, C. (2012). Phylogeography of the *Vipera ursinii* complex (Viperidae): mitochondrial markers reveal an east–west disjunction in the Palaearctic region. Journal of Biogeography **39**: 1836-1847. **10**
2. Mezzasalma, M., Dall'Asta, A., Loy, A., Cheylan, M., Lymberakis, P., Zuffi, M., **Tomović, Lj.**, Odierna, G. & Guarino, F. (2015). A sisters' story: comparative phylogeography and taxonomy of *Hierophis viridiflavus* and *H. gemonensis* (Serpentes, Colubridae). Zoologica Scripta **44**: 495-508. **10**
3. Bonnet, X., Golubović, A., Arsovski, D., Đorđević, S., Sterijovski, B., Ajtić, R., Barbraud, C. & **Tomović, Lj.** (2016). The prison effect in a wild population: a scarcity of females induces males to court other males more frequently than females. Behavioral Ecology **27**: 1206-1215. **10**

M21 – RAD U VRHUNSKOM MEĐUNARODNOM ČASOPISU

Pre izbora u zvanje vanrednog profesora:

4. Ursenbacher, S., Schweiger, S., **Tomović, Lj.**, Crnobrnja-Isailović, J., Fumagalli, L. & Mayer, W. (2008). Molecular phylogeography of the nose-horned viper (*Vipera ammodytes*, (Linnaeus, 1758)): evidence for high genetic diversity and multiple refugia in the Balkan peninsula. Molecular Phylogenetics and Evolution **46**: 1116-1128. **8**
5. **Tomović, Lj.**, Crnobrnja-Isailović, J., Ajtić, R., Aleksić, I. & Đorđević, S. (2010). When do meadow vipers (*Vipera ursinii*) become sexually dimorphic? – ontogenetic patterns of sexual size dimorphism. Journal of Zoological Systematics and Evolutionary Research **48**: 279-282. **8**

Posle izbora u zvanje vanrednog profesora:

6. Ajtić, R., **Tomović, Lj.**, Sterijovski, B., Crnobrnja-Isailović, J., Djordjević, S., Djurakić, M., Golubović, A., Simović, A., Arsovski, D., Andjelković, M., Krstić, M., Šukalo, G., Gvozdenović, S., Aïdam, A., Michel, C. L., Ballouard, J.-M. & Bonnet, X. (2013). Unexpected life history traits in a very dense population of dice snakes. Zoologischer Anzeiger **252**: 350-358. **8**
7. Golubović, A., Bonnet, X., Đorđević, S., Đurakić, M. & **Tomović, Lj.** (2013). Variations in righting behaviour across Hermann's tortoise populations. Journal of Zoology **291**: 69-75. **8**
8. Golubović, A., **Tomović Lj.** & Ivanović A. (2015). Geometry of self righting – case of Hermann's tortoises. Zoologischer Anzeiger **254**: 99-105. **8**
9. Ballouard, J.-M., Mullin, S., Ajtić, R., Brito, J., El Mouden, H., Erdogan, M., Feriche, M., Pleguezuelos, J., Prokop, P., Sánchez, A., Santos, X., Slimani, T., Sterijovski, B., **Tomović, Lj.**, Uşak, M., Zuffi, M. & Bonnet, X. (2015). Factors influencing Schoolchildren's Responses to a questionnaire in Wildlife Conservation Education. International Journal of Science Education **37**: 469-483. **8**

10. **Tomović, Lj.**, Urošević, A., Vukov, T., Ajtić, R., Ljubisavljević, K., Krizmanić, I., Jović, D., Labus, N., Đorđević, S., Kalezić, M. L., Džukić, G. & Luiselli, L. (2015). Threatening levels and extinction risks based on distributional, ecological and life-history datasets (DELH) *versus* IUCN criteria – example of Serbian Reptiles. Biodiversity and Conservation **24**: 2913-2934 **8**

11. Anđelković, M., **Tomović, Lj.** & Ivanović, A. (2016). Variation in skull size and shape of two snake species (*Natrix natrix* and *Natrix tessellata*). Zoomorphology **135**: 243-253. **8**

M22 – RAD U ISTAKNUTOM MEĐUNARODNOM ČASOPISU

Pre izbora u zvanje vanrednog profesora:

12. Sotiropoulos, K., **Tomović, Lj.**, Džukić, G. & Kalezić, M. L. (2001). Morphological differentiation of the alpine newt (*Triturus alpestris*) in the Balkans: taxonomic implications. Herpetological Journal **11**: 1-8. **5**

13. **Tomović, Lj.** (2006). Systematics of the nose-horned viper (*Vipera ammodytes*, Linnaeus, 1758). Herpetological Journal **16**: 191-201. **5**

14. Crnobrnja-Isailović, J. Ajtić, R. & **Tomović, Lj**. (2007). Activity patterns of the sand viper (*Vipera ammodytes*) from the central Balkans. Amphibia-Reptilia **28**: 582-589. **5**

15. **Tomović, Lj.**, Carretero, M. A., Ajtić, R. & Crnobrnja-Isailović, J. (2008). Evidence for post-natal instability of head scalation in the meadow viper (*Vipera ursinii*) – patterns and taxonomic implications. Amphibia-Reptilia **29**: 61-70. **5**

16. **Tomović, Lj.**, Crnobrnja-Isailović, J. & Brito, J. C. (2010). The use of Geostatistics and GIS for Evolutionary History Studies: the case of the nose-horned viper (*Vipera ammodytes*) in the Balkan Peninsula. Biological Journal of the Linnean Society **101**: 651-666. **5**

17. Marić, S., Nikolić, V., **Tomović, Lj.** & Simonović, P. (2011). Morphological differentiation of trout (subf. Salmoninae) based on characteristics of head skeleton. Italian Journal of Zoology **78**: 455-463. **5**

18. Djordjević, S., Djurakić, M., Golubović, A., Ajtić, R., **Tomović, Lj.** & Bonnet, X. (2011). Sexual body size and body shape dimorphism of *Testudo hermanni* in central and eastern Serbia. Amphibia-Reptilia **32**: 445-458. **5**

Posle izbora u zvanje vanrednog profesora:

19. Ballouard, J.-M., Ajtić, R., Balint, H., Brito, J. C., Crnobrnja-Isailović, J., Desmonts, D., El Mouden, H., Erdogan, M., Feriche, M., Pleguezuelos, J. M., Prokop, P., Sánchez, A., Santos, X., Slimani, T., **Tomović, Lj.**, Uşak, M., Zuffi, M. & Bonnet, X. (2013). Schoolchildren and one of the most unpopular animals: are they ready to protect snakes? Anthrozoos **26**: 93-109. **5**

20. Djordjević, S., **Tomović, Lj.**, Golubović, A., Simović, A., Sterijovski, B., Djurakić, M. & Bonnet, X. (2013). Geographic (in-)variability of gender-specific traits in Hermann's tortoise. Herpetological Journal **23**: 67-74. **5**

21. Golubović, A., Arsovski, D., Ajtić, R., **Tomović, Lj.** & Bonnet, X. (2013). Moving in the real world: tortoises take the plunge to cross steep steps. Biological Journal of the Linnean Society **108**: 719-726. **5**

22. Golubović, A., Andjelković, M., Arsovski, D., Vujović, A., Iković, V., Djordjević, S. & **Tomović, Lj.** (2014). Skills or strength – how tortoises cope with dense vegetation? Acta Ethologica **17**: 141-147. **5**

23. Anđelković, M., Blagojević, V., **Tomović, Lj.** & Ivanović, A. (2016). Ontogeny of pileus shape in *Natrix natrix* and *Natrix tessellata*. Herpetological Journal **26**: 3-9. **5**

M23 – RAD U MEĐUNARODNOM ČASOPISU

Pre izbora u zvanje vanrednog profesora:

24. Radojičić, J., Cvetković, D., **Tomović, Lj.**, Džukić, G. & Kalezić, M. L. (2002). Sexual dimorphism in fire-belied toads *Bombina* spp. from the central Balkans. Folia Zoologica **51**: 129-140. 3

25. **Tomović, Lj.** & Džukić, G. (2003). Geographic Variability and Taxonomy of the Nose-horned Viper, *Vipera ammodytes* (L. 1758), in the Central and Eastern Parts of the Balkans: A Multivariate Study. Amphibia-Reptilia **24**: 359-377. 3

26. **Tomović, Lj.**, Crnobrnja-Isailović, J. & Ajtić, R. (2004). A preliminary study of the population ecology of *Vipera ursinii macrops* from eastern Montenegro Amphibia-Reptilia **25**: 316-320. 3

27. Dajić-Stevanović, Z., Pećinar, I., Kresović, M., Vrbničanin, S. & **Tomović, Lj.** (2008). Biodiversity, utilization and management of grasslands of salt affected soils in Serbia. Community Ecology **9** (Supplement 1): 107-114 3

Posle izbora u zvanje vanrednog profesora:

28. Jelić, D., Ajtić, R., Sterijovski, B., Crnobrnja-Isailović, J., Lelo, S. & **Tomović, Lj.** (2012). Distribution of the genus *Vipera* in the western and central Balkans (Squamata: Serpetntes: Viperidae). Herpetozoa **25**: 109-132. 3

29. Šukalo, G., Djordjević, S., Golub, D., Dmitrović, D. & **Tomović, Lj.** (2013). Novel, non-invasive method for distinguishing the individuals of the fire salamander (*Salamandra salamandra*) in capture-mark-recapture studies. Acta Herpetologica **8**: 41-45. 3

30. Miličić, D., Đorđević, S., **Tomović, Lj.** & Pavković-Lučić S. (2013). Sexual dimorphism in *Branchipus schaefferi* Fischer, 1834 (Anostraca, Crustacea) from Serbia. North-Western Journal of Zoology **9**: 425-428. 3

31. Jelić, D., Ajtić, R., Sterijovski, B., Crnobrnja-Isailović, J., Lelo, S. & **Tomović, Lj.** (2013). Legal status and assessment of conservation threats to Vipers (Reptilia: Squamata: Viperidae) of the Western and Central Balkans. Herpetological Conservation and Biology **8**: 764-770. 3

32. Perez, M., Livoreil, B., Mantovani, S., Boisselier, M.-C., Crestanello, B., Abdelkrim, J., Bonillo, C., Goutner, V., Lambourdière, J., Pierpaoli, M., Sterijovski, B., **Tomović, Lj.**, Vilaca, S. T., Mazzotti, S. & Bertorelle, G. (2014). Genetic variation and population structure in the endangered Hermann's tortoise: the roles of geography and human-mediated processes. Journal of Heredity **105**: 70-81. 3

33. Velevski, M., Grubač, B. & **Tomović, Lj.** (2014). Population viability analysis of the Egyptian Vulture *Neophron percnopterus* in Macedonia and implications for its conservation. Acta Zoologica Bulgarica **66**: 43-58. 3

34. Sterijovski, B., **Tomović, Lj.** & Ajtić, R. (2014). Contribution to the knowledge of the Reptile fauna and diversity in FYR of Macedonia. North-Western Journal of Zoology **10**: 83-92. 3

35. Šukalo, G., Djordjević, S., Gvozdenović, S., Simović, A., Andjelković, M. & **Tomović, Lj.** (2014). Intra- and inter-population variability of food preferences of two *Natrix* species on the Balkan Peninsula. Herpetological Conservation and Biology **9**: 123-136. 3

36. Sterijovski, B., Ajtić, R., **Tomović, Lj.** & Bonnet, X. (2014). Conservation threats to Dice Snakes (*Natrix tessellata*) in Golem Grad Island (FYR of Macedonia). Herpetological Conservation and Biology **9**: 468-474. 3

37. Vujović, A., Iković, V., Golubović, A., Djordjević, S., Ajtić, R., Pešić, V. & **Tomović, Lj.** (2015). Effects of fires and roadkills on the isolated population of *Testudo hermanni* Gmelin, 1789 (Reptilia: Testudinidae) in central Montenegro. Acta Zoologica Bulgarica **67**: 75-84. 3

38. Vukov, T. D., **Tomović, Lj.**, Krizmanić, I., Labus, N., Jović, D., Džukić, G. & Kalezić, M. L. (2015). Conservation issues of Serbian Amphibians identified from distributional, life history and ecological data. Acta Zoologica Bulgarica **67**: 105-116. 3

39. Gavrić, P. J., Prokić, D. M., Anđelković, Z. M., Despotović, G. S., Gavrilović, R. B., Borković-Mitić, S. S., Radovanović, B. T., **Tomović, M. Lj.**, Pavlović, Z. S. & Saičić, S. Z. (2015). Effects of metals on blood oxidative stress biomarkers and acetylcholinesterase activity in dice snakes (*Natrix tessellata*) from Serbia. Archives of Biological Sciences **61**: 303-315. 3

40. Urošević, A., **Tomović, Lj.**, Ajtić, R., Simović, A. & Džukić, G. (2015). Alterations in the reptilian fauna of Serbia: Introduction of exotic and anthropogenic range expansion of native species. Herpetozoa **28**: 115-132. 3

ZBORNICI MEĐUNARODNIH NAUČNIH SKUPOVA:

M32 – PREDAVANJE PO POZIVU SA MEĐUNARODNOG SKUPA ŠTAMPANO U IZVODU

Pre izbora u zvanje vanrednog profesora:

1. Crnobrnja-Isailović, J. & **Tomović, Lj.** (2006). Importance of phylogeographic research for conservation of herpetofauna of the Balkans. 2nd International Symposium of Ecologists of the Republic of Montenegro, Book of Abstracts, p. 25-26. **1.5**

Posle izbora u zvanje vanrednog profesora:

2. **Tomović, Lj.** (2015). Red Book of Fauna of Serbia I & II – Amphibians & Reptiles. 3rd Symposium of Biologists and Ecologists of Republika Srpska, Book of Abstracts, p. 156. **1.5**
3. **Tomović, Lj.** (2016.). Conservation of Reptiles in the central Balkans – *de jure* & *de facto*. 5th Congress of Ecologists of the Republic of Macedonia with International Participation, Book of Abstracts, p. II. **1.5**

M33 – SAOPŠTENJE SA MEĐUNARODNOG SKUPA ŠTAMPANO U CELINI

Pre izbora u zvanje vanrednog profesora:

1. **Tomović, Lj.** & Džukić, G. (2001). On the possible presence of meadow viper (*Vipera ursinii rakosiensis*) in FR Yugoslavia. Workshop Report, Hungarian meadow Viper PHVA, pp. 74-75. 5.-8. Nov. 2001, Budapest. **1**

Posle izbora u zvanje vanrednog profesora:

2. **Tomović, Lj.** (2014). Population studies of *Testudo hermanni boettgeri* in Serbia, Macedonia and Montenegro. Chelonii **9**: 50-52. **1**
3. Golubović, A. & **Tomović, Lj.** (2014). Habitat configuration and vegetation cover shapes locomotor abilities in tortoises – implications for conservation management. Chelonii **9**: 131-135. **1**
4. Sterijovski, B., Ajtić, R. & **Tomović, Lj.** (2014). Hermann's tortoise in FYR of Macedonia – distribution and conservation status. Chelonii **9**: 31-34. **1**

BIOGRAFIJA SA BIBLIOGRAFIJOM

Lične informacije:

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Državljanstvo	Crnogorsko
Datum rođenja	07.11.1973.

Obrazovanje:

Srednja škola	Gimnazija "Slobodan Škerovic" Podgorica, Crna Gora
Diplomirani biolog	Prirodno matematički fakultet, Katedra za Biologiju, Univerzitet Crne Gore
Magistar bioloških nauka. Smjer Biodiverzitet	Prirodno matematički fakultet, Katedra za Biologiju, Univerzitet Crne Gore

Dodatno obrazovanje, kursevi i treninzi:

Kurs računara - dva semestra	Prirodno matematički fakultet, Univerzitet Crne Gore
Dvosemestralni kurs Informatika i računari	Ekonomski fakultet, Univerzitet Crne Gore
Napredni kompjuterski kurs	WUSS Center
Kuurs računara (Internet, Microsoft office)	Narodni univerzitet "Milun Božović"
Kurs Engleskog jezika (VII nivo)	Institut za strane jezike, Univerzitet Crne Gore
Kurs računara - ECDL -European Computer Driving Licence	Ministarstvo prosvjete
Kurs računara - ECDL -European Computer IT Security	Ministarstvo prosvjete
GIS mapiranje - trening	Centar za primijenjenu ekologiju "Daphne"
Trening za mapiranje na terenu - Treining i radionica	Centar za primijenjenu ekologiju "Daphne" i WWF
Trening za implementaciju Natura 2000 mreže u Crnoj Gori	Centar za primijenjenu ekologiju "Daphne" i WWF
Trening škola bez nasilja	UNDP i Ministarstvo prosvjete
"Zeleni paket" (primjena zelenog paketa u edukaciji)	REC, kancelarija u Crnoj Gori
Održivi razvoj u obrazovanju	Zavod za skolstvo CG
ECO-remedijacija Treining	DOO Limnos, Slovenija
Treining za pisanje projekata	Asocijacija za demokratski prosperitet - Zid
Trening za razvoj i organizovanje volonterskog rada u obrazovanju	Asocijacija za demokratski prosperitet - Zid
Seminar za inkluzivno obrzaovanje	Zavod za školstvo
Seminar za nastavu Zdravih stilova života	Zavod za školstvo
Trening za monitoring i evaluaciju	South east European youth network trening centar
Trening za ispitnu komisiju	Ispitni centar

Trening za pisanje testova za eksterna testiranja	Ispitni centar
Kritičko mišljenje	Zavod za školstvo
Ocjenjivanje i procjenjivanje	Zavod za školstvo
Edukativne igrice u nastavi	Zavod za školstvo
Treining Evropske komisije "Youth in Action"	South east European youth network training centre
Treining za otkrivanje i prevenciju porodičnog nasilja	SOS – Podorica, Uprava policije i Zavod za školstvo
Preduzetničko učenje	Zavod za školstvo

Radno iskustvo:

2017	Isitni centar
	Ministarstvo prosvjete
	Zavod za skolstvo CG
	Ministarstvo održivo razvoja i turizma
2016	NVO "Green home"
	Isitni centar
2015	NVO Crnoorsko društvo ekologa
	Ministarstvo nauke
	PMF – Katedra za biologiju
	Isitni centar
2014	Nacionalni parkovi Crnre Gore
	Ministarstvo prosvjete
	Zavod za skolstvo CG
	Ministarstvo nauke
	PMF – Katedra za biologiju
2013	Isitni centar
	Ministarstvo prosvjete
	Zavod za skolstvo CG
	Ministarstvo nauke
	PMF – Katedra za biologiju
	REC Regional Environmental Centre
2012	Isitni centar
	Ministarstvo nauke
	PMF – Katedra za biologiju
	WWF
	Centar za primijenjenu ekologiju "Daphne"
2008 - 2012	Ministarstvo održivog razvoja I turizma
	WWF
	Centar za primijenjenu ekologiju "Daphne"
	Ministarstvo održivog razvoja I turizma
2007 - 2017	Zavod za zaštitu prirode
2003 - 2006	JU OŠ "Sutjeska"
2000 - 2002	AD BVexim
1995 - 1999	Lovćen osiguranje
	AD Marfy

Članstvo u civilnim organizacijama:

Crnogorsko društvo ekologa,	Predsjednik upravnog odbora
Udruženje gorana - Podgorica,	Član upravnog odbora
Centar za biodiverzitet	Član skupštine
Crveni krst - Podgorica	Član skupštine

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5. PEŠIĆ, V., GROSSER, C. & GLIGOROVIĆ, B. 2014. A contribution to the knowledge of the Leeches (Hirudinea) in Montenegro. Ecologica Montenegrina. Podgorica.
6. GLIGOROVIĆ, A., IBRAHIMI, H., & GLIGOROVIĆ, B. 2016. First record of Harmonia axyridis (Coleoptera: Coccinellidae) from Montenegro. Ecologica Montenegrina, 40-41.
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9. GLIGOROVIĆ, B., PEŠIĆ, V. & ZEKOVIĆ, A. 2008. A contribution to the knowledge of dragonflies (Odonata) from the area Gornji Crnci – Piperi (Montenegro). Acta entomologica Serbica, Beograd 13(1/2):1-7.
10. JOVIĆ, M., GLIGOROVIĆ, B. & STANKOVIĆ, M. 2010. Review of faunistical data on Odonata in Bosnia & Herzegovina. Acta entomologica serbica, 15(1): 7-27.
11. GLIGOROVIĆ, B., PEŠIĆ, V. & GLIGOROVIĆ, A. 2010. A contribution to the knowledge of dragonflies (Odonata) of the river Morača. Acta entomologica serbica, 2010, 15(2): 149-159

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13. GLIGOROVIĆ, B., PEŠIĆ, V. & ZEKOVIĆ, A. 2009. A contribution to the knowledge of dragonflies (Odonata) mountainous area Lukavica (Montenegro). Natura Montenegrina, Podgorica 8(1):31-39.
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17. GLIGOROVIĆ, A., PEŠIĆ, V. & GLIGOROVIĆ, B. 2012. Contribution to the knowledge of the Coocinelidae (Coleoptera) of the Piperi area (Montenegro). Natura Montenegrina,

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13. GLIGOROVIĆ, B., PEŠIĆ, V. & GLIGOROVIĆ, A. 2015.: Fauna of dragonfly (Odonata) in the Ulcinj area. 6th International symposium of ecologists of Montenegro, Programme and abstracts.Ulcinj. 15-18.October 2015
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Učešće u projektima i aktivnostima vezanim za obrazovanje iz oblasti biologije (publikovano)::

1. Akcioni plan za implementaciju održivog razvoja u obrazovni sistem u Crnoj Gori
2. Ekoremedijacija – Razvojna strategija u obrazovanju u Crnoj Gori
3. Revizija obrazovnih programa Biologija, biologija i ekologija za osnovno obrazovanje
4. Priprema vodiča za nastavnike biologije
5. Izrada međupredmetnog programa "Obrazovanje za održivi razvoj"
6. Član tima za obuku nastavnika osnovnih škola za primjenu revidiranog programa biologija i biologija sa ekologijom
7. Član komisije za određivanje standarda znanja za eksterno testiranje učenika osnovnih škola za predmet Biologija.
8. Član tima za izradu „Zelenog paketa" za osnovne škole
9. Izrada obrazovnih programa Biologija za osnovno obrazovanje

Studije, istraživanja na polju biodiverziteta za i ekologije za ugovorne naručitelje (publikovano):

1. Mreža zaštićenih područja Natura 2000 u Crnoj Gori, (Istraživanje i GIS mapiranje životinjskih vrsta) za Ministarstvo održivog razvoa i turizma
2. Mreža zaštićenih područja Natura 2000 u Crnoj Gori, (Istraživanje i GIS mapiranje životinjskih vrsta) za WWF i Centar za primijenjenu ekologiju "Daphne"
3. Studija – Istraživanje faune regionalnog parka Komovi za Zavod za zaštitu prirode
4. Procjena uticaja izgradnje brana na Morači na faunu Invertebrata za Zavod za zaštitu prirode
5. Studija za reviziju mjera zaštite plaža, (Bar, Budva, Tivat) za Zavod za zaštitu prirode
6. Studija za reviziju mjera zaštite plaža (fauna, flora) (Trsteno, Jaz) za Zavod za zaštitu prirode
7. Studija za reviziju mjera zaštite plaža (fauna, flora) (Ratac, Sutomore, Susanj) za Zavod za zaštitu prirode
8. Studija - Uticaj klimatskih promjena na faunu vodenih ekosistema za Ministarstvo nauke i PMF
9. Istraživanje faune Tivatskih solila i Buljarice za CZIP
10. Istraživanje faune Ulcinjske solane za NP CRNE Gore
11. Mapiranje zaštićenih područja Natura 2000 u Crnoj Gori, (Istraživanje i GIS mapiranje životinjskih vrsta) za Ministarstvo održivog razvoa i turizma
12. Istraživanje faune rijeke Morače za "Green home"