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U skladu sa članom 41 Pravila doktorskih studija, u prilogu akta dostavljamo predlog Odluke Vijeća o imenovanju komisije za ocjenu doktorske disertacije Slađane Gvozdenović pod nazivom „Integralni multi-trofički uzgoj dagnje (Mytilus galloprovincialis L.) i kamenice (Ostrea edulis L.) sa ribom u Bokokotorskom zalivu" korišćenjem softvera *Ithenticate,* radi davanja saglasnosti.

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DEKAN

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N/R KOMISJI ZA DOKTORSKE STUDIJE

Predmet: Evaluacija doktorske disertacije doktoranda Slađane Gvozdenović „Integralni multi – trofički uzgoj dagnje (Mytilus galloprovincialis L.) i kamenice (Ostrea edulis L.) sa ribom u Bokokotorskom zalivu" korišćenjem softvera *Ithenticate*

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U prilogu Vam dostavljamo izvještaj o provjeri predmetne doktorske disertacije generisan od *Ithenticate* softvera.

Srdačan pozdrav,

ZA ODBOR ZA DOKTORSKE STUDIJE

PREDSJEDNIK

Prof. dr Predrag Miranović

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Titula, ime, ime roditelja, prezime	Mr Slađana (Đorđe) Gvozdenović		
Fakultet	Prirodno-matematički fakultet		
Studijski program	Biologija		
Broj indeksa	1/14		
NAZIV DOKTORSKE DISERTACIJE			
Na službenom jeziku	Integralni multi-trofički uzgoj dagnje (*Mytilus galloprovincialis* L.) i kamenice (*Ostrea edulis* L.) sa ribom u Bokokotorskom zalivu		
Na engleskom jeziku	Integral multi-trophic farming of Mediterranean mussel (*Mytilus galloprovincialis* L.) and European flat oyster (*Ostrea edulis* L.) with fish in Boka Kotorska Bay		
Naučna oblast	Ekologija		
MENTOR/MENTORI			
Prvi mentor	Prof. dr Vladimir Pešić	Univerzitet Crne Gore, Crna Gora	Ekologija i Biodiverzitet
Drugi mentor	/	/	/
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Viši naučni saradnik Milica Mandić		Univerzitet Crne Gore, Crna Gora	Ihtioplankton i marikultura
Prof. dr Nada Blagojević		Univerzitet Crne Gore, Crna Gora	Analitička hemija
Prof. dr Ljiljana Tomović		Univerzitet u Beogradu, Srbija	Ekologija i Biodiverzitet
Prof. dr Vladimir Pešić		Univerzitet Crne Gore, Crna Gora	Ekologija i Biodiverzitet
Datum značajni za ocjenu doktorske disertacije			
Sjednica Senata na kojoj je data saglasnost na ocjenu teme i kandidata		31.03.-04.04.2016	
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Spisak radova doktoranda iz oblasti doktorskih studija koje je publikovao u časopisima (upisati odgovarajući listu)

1. Gvozdenović Slađana, Mandić Milica, Pešić Vladimir, Nikolić Marko, Pešić Ana & Ikica Zdravko (2017): Comparison between IMTA and monoculture farming of mussels (*Mytilus galloprovincialis* L.) in the Boka Kotorska Bay. Acta Adriatica, 58(2): 271-284. http://jadran.izor.hr/acta/pdf/58_2_pdf/58_2_7.pdf Časopis indeksiran u SCI/SCIE (Ostampan rad dat uz obrazac)

2. Gvozdenović Slađana, Nikolić Marko, Pešić Vladimir, Peraš Ines & Mandić Milica (2019): At the Door yes, but inside no – up until now! First data on the alien mollusc *Fulvia fragilis* (Forsskål in Niebuhr, 1775) (Bivalvia: Cardiidae) from the Adriatic Sea. Acta Zoologica Bulgarica, 71, accepted. http://www.acta-zoologica-bulgarica.eu/downloads/acta-zoologica-bulgarica/2018-12-articles-accepted.pdf Časopis indeksiran u SCI/SCIE (Potvrda o prihvatanju rada data uz obrazac)

Obrazloženje mentora o korišćenju doktorske disertacije u publikovanim radovima

Rezultati dobijeni u toku rada na doktorskoj disertaciji objavljeni su u publikovanim radovima.

U radu (1) publikovanom u časopisu Acta Adriatica objavljeni su rezultati dobijeni u toku izrade disertacije koji se odnose na uporednu analizu između IMTA (integralnog multi-trofičkog uzgoja) i gajenja u monokulturi vrste dagnje *Mytilus galloprovincialis* L na istraživanom području Boko-Kotorskog zaliva.

U radu (2) publikovanom u časopisu Acta Zoologica Bulgarica - invazivna vrsta *Fulvia fragilis* (Forsskål in Niebuhr, 1775) (Bivalvia: Cardiidae) registrovana je po prvi put za Jadransko more.

Datum i ovjera (pečat i potpis odgovorne osobe)

U Podgorici,

MP

DEKAN

Prilog dokumenta sadrži:

1. Potvrdu o predaji doktorske disertacije organizacionoj jedinici
2. Odluku o imenovanju komisije za pregled i ocjenu doktorske disertacije
3. Kopiju rada publikovanog u časopisu sa odgovarajuće liste
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Sofia, 01.10.2018

Dear Drs. Slađana Gvozdenović, Marko Nikolić, Vladimir Pešić, Ines Peraš & Milica Mandić

Your manuscript 2258 **"At the Door yes, but inside no – up until now! First record on the alien mollusc *Fulvia fragilis* (Forsskål in Niebuhr, 1775) (Cardiida: Cardiidae) from the Adriatic Sea 1. Dr Fabio Crocetta"**
has been accepted and will be printed in *Acta zoologica bulgarica* in issue 71, 2019.
Best regards,

Rossy Kaneva,
managing editor and secretary

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ORIGINAL SCIENTIFIC PAPER

Comparison between IMTA and monoculture farming of mussels (*Mytilus galloprovincialis* L.) in the Boka Kotorska Bay

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This paper presents the resuls of growth rate and condition index analysis of Mytilus galloprovincialis *in integrated system and monoculture. The aim of this study was to show if there are differences in growth and condition index of mussels between integrated multi-trophic aquaculture (IMTA) and monoculture farming. The growth rate and condition index were monitored during a 13-month study at three different sites: 1) close to fish cages (NBL), 2) 100 m removed from fish cages (NUD), 3) at a monoculture mussel farm (SVN) around 8 km far away from cages. The most intense growth of mussels was recorded in spring, and the least intense in summer. After 13 months, monitored individuals at all three locations achieved commercial size. The growth rate was very similar at all sites. The condition index showed spatial and temporal differences. Condition index values on site NUD were mostly higher compared to SVN and NBL, which were very similar, exept for the period from October to December when CI was similar on NBL and NUD site and higher in comparation with SVN. CI values on NBL an NUD site during cold period indicate on fact that mussels probably feed on the nutrients from fish farm origins.The highest mortality rate was recorded at the NBL site, probably due to the effects of fouling organisms.*

Key words: *Mytilus galloprovincialis*, integrated multi-trophic aquaculture (IMTA), monoculture, Boka Kotorska Bay

INTRODUCTION

Marine aquaculture or mariculture is a very important fish, crustacean, mollusc and algae production sector, which has the possibility to replace the reduced potential of natural resources (FAO, 2010). Nowadays, terms such as "integrated" and "multi-trophic" are increasingly used in relation to the concept of mariculture and aquaculture in general (CHOPIN & ROBINSON, 2004). Integrated multi-trophic aquaculture (IMTA) can be defined as the form of aquaculture where unconsumed fish food and fish metabolic products, which otherwise would have negative impact on the environment, can be used as a food source in another subsystem, leading to the increased productivity of the entire system under the complete control of the farmers (FAO, 2009; TROELL *et al.*, 2009; CHÁVEZ-CROOKER & OBREQUE-CONTRERAS, 2010). According to FAO (2004), one of the main goals of the aquaculture industry in the near future would be to minimize

negative impacts on the environment in order to achieve long-term viability. IMTA can be a good mechanism for achieving this goal, while also achieving another benefit — the increased economical productivity of the entire system (SARÀ *et al.*, 2009; RENDMOND *et al.*, 2010; SARÀ *et al.* 2011; ŽUPAN 2012; MACDONALD *et al.*, 2013; HOLDT & EDWARDS, 2014; AL-HAFEDH *et al.*, 2014; RATCLIFF *et al.*, 2015).

Integrated multi-trophic farming systems of various marine organisms are known worldwide (FAO, 2009; ABREU *et al.*, 2009; NAVARRETE-MIER *et al.*, 2010; REID *et al.*, 2010; HUGHES & KELLY, 2011; HANDÀ *et al.*, 2012; LANDER *et al.*, 2012; IRISARRI *et al.*, 2014a). The possibility of implementation of the integrated multi-trophic farming in the Mediterranean was well studied in the last ten years (PEHARDA *et al.*, 2007; NAVARRETE-MIER *et al.*, 2010; SARÀ *et al.*, 2011; ŽUPAN, 2012; ŽUPAN *et al.*, 2012; ŽUPAN *et al.*, 2013; ŽUPAN *et al.*, 2014; ISARRI *et al.*, 2014a). Bivalves are known as filter feeders and they could potentially remove organic matter as well as uneaten fish food from water (RENDMOND *et al.*, 2010). According to SARÀ *et al.* (2009) and MAZZOLA & SARÀ (2001) this process can reduce negative impact on environment. Some studies have shown that the farming period for achieving market size in integrated farming of mussels (*Mytilus galloprovincialis*) and fish is similar to that in commercial monoculture (PEHARDA *et al.*, 2007). On the other hand, SARÀ *et al.* (2011) demonstrated higher growth rate of mussels (*M. galloprovincialis*) and the European flat oyster (*Ostrea edulis*) found close to fish farms compared to those found at the open sea. Higher condition index values of Noah's Ark shell (*Arca noae*) near fish farm, and the nearly identical periods for achieving market size of mussels (*M. galloprovincialis*) in integrated farming and monoculture have been proven by ŽUPAN (2012).

Mediterranean mussel, *M. galloprovincialis* Lamarck 1819, is a widely distributed species, autochthonous to the Mediterranean (GISD, 2016). The mussel lives in colonies in the tidal zone, fastened to the substrate by byssal threads. It feeds on phytoplankton, bacteria, zooplankton and detritus (DAVENPORT *et al.*, 2000; PRATO *et al.*, 2010). Genders are separated, and the spawning occurs mostly in spring and autumn. The mussels are considered to be of market size when they are at least 5 cm in length (OFFICIAL GAZETTE OF MONTENEGRO, 8/2011; 56/2009, 47/2015).

The mussel farming tradition in the Boka Kotorska Bay area started about thirty years ago, although the first experiments regarding mussel and oyster farming begun in the 1960's (STJEPČEVIĆ, 1968). Today, there are 20 mussel farms in the Bay, all using floating park systems (long-lines). Gilthead sea bream (*Sparus aurata* Linnaeus, 1758) and European sea bass (*Dicentrarchus labrax* Linnaeus 1758) farming in the area started in the late nineties, and currently there are two farms (Orahovac and Stoliv) using the floating cage system farming method. The integrated farming of mussels and fish is used on both farms. In 2014, the mariculture production amounted to 45 t of sea bass, 38 t of sea bream, and 178 t of mussels (MONSTAT, 2015).

The main goal of this study was to obtain some data on IMTA farming, due to fact that this kind of farming has not been sufficiently studied in neither the Adriatic nor in the Mediterranean.

MATERIAL AND METHODS

Study area

The study was conducted on two locations in the Boka Kotorska Bay, Montenegro (South Adriatic) (Fig. 1). One location was the fish and mussel farm "COGImar" in the settlement of Orahovac, Kotor municipality, 42° 29′ 07.79″ N, 18° 44′ 42.47″ E. The second location was Sveta Nedelja mussel farm in the Kamenari settlement, municipality of Herceg Novi, 42° 27′ 30.89″ N, 18° 40′ 21.42″ E . The straight-line distance between the two study locations is 8 km. The COGImar farm farms Gilthead sea bream, European sea bass, Mediterranean mussel and European flat oyster in polyculture. On the COGImar localition two sites were chosen for the experimental part of the study: the mussel long-line closest to the floating fish cages (NBL), which was 10 m removed from the cages, and the mussel long-line furthest from the fich cages (about 100 m removed) (NUD). Sveta

Nađelja farm is a monoculture bivalve farm which produces Mediterranean mussel as well as the European flat oyster, and therefore only one site was selcted (SVN).

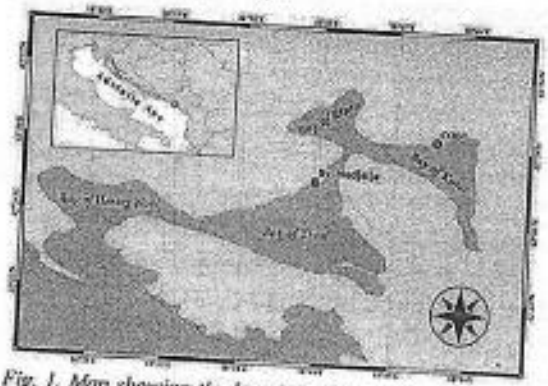

Fig. 1. Map showing the locations of sampling sites (NBL and NUD at COGI, SVN at Sv. Nađelja)

Experimental design

The growth experiment was set during a 13-month period, from January 2015 until January 2016. In January 2015, mussels of approximately the same size (mean length 4.27 ± 0.4 cm) and age (around 8-10 months) were taken form the experimental farm at the Institute of Marine Biology, University of Montenegro, in Kotor. Mussels were cleaned of fouling organisms the same day, and shell lengths, widths and heights were measured using vernier caliper to the nearest 0.1 mm. Individual mussels were marked using improvised tags. The tags were made from kitchen plastic waterproof mats (WelkHOME, Italy). The mats were cut to rectangles, approx. 12×5 mm in size, and markings etched on the surface using scalpel and soldering iron, with the markings visibility improved using waterproof felt-tip marker. Numbered tags were bonded to mussel shells with two-component waterproof adhesive (ABRO EPOXY STEEL, U.S.A.). During the marking process, duration of air exposure was around 2-3 minutes, until the adhesive hardened. Marked and measured mussels were placed in plastic baskets (48×29×5 cm, with 2 cm stretched mesh size) and suspended in water at depths between 2 and 3 m. At the COGImar location, 110 individuals were placed together on a farming line closest to the fish cages (NBL), and another 110 individuals on a farming line furthest from the fish cages (NUD). At the Sveta Nađelja location, 112 individuals were set together on a farming line (SVN). The mussels were checked every other month, removed from water, measured (length, width, height), cleaned from fouling organisms and resuspended in water.

Temperature and salinity on both localities were recorded monthly using the Multiline P4 WTW probe.

For condition index estimation, a total of 1,560 individual mussels of similar size and age (around 8-10 months) were taken from the experimental farm at the Institute of Marine Biology. Mussels were placed in nylon mesh nets (2-3 cm stretched mesh size). Fourty individual mussels were put in each net, with 13 nets per site (i.e. 39 nets in total). Nets were placed on NBL, NUD and SVN sites at depths between 2 and 3 m. Once per month, one net from each site was taken. From each net 30 individual mussels were taken and processed in the laboratory the same day. The condition index was determined as the ratio between wet mass of meat (WMM) and total weight (TW), according to ALMEIDA *et al.* (1999).

Statistical analyses

Growth ratios were tested using repeated-measures two-way ANOVA with Tukey post-hoc test. Parameters of von Bertalanffy's growth equation ($L_t=L_\infty\,[1-e^{-k(t-t_0)}]$) were estimated with analysis of growth increment data using Munro's method in the FISAT II v.1.2.2 statistical package (GAYANILO *et al.*, 2005).

The condition index samples were tested for normality of distribution of differences between each observation and the mean of its group using Kolmogorov-Smirnov test with Lilliefors significance correction.

The homogeneity of variance was tested using Fligner-Killeen test for samples that did not follow normal distribution, and with Bartlett test for those that did. Homoscedastic samples were then tested using one-way ANOVA, with

Tukey HSD (Honestly Significant Difference) used as a *post hoc* test. Heteroscedastic samples were analysed using Kruskal-Wallis rank sum test, with Dunn's test as a *post hoc* test.

RESULTS

Temperature and salinity

Minimum and maximum temperatures at the COGImar location ranged between 11.6°C in February 2015 and 27.9°C in July 2015. Temperature on the Sveta Nedelja location ranged between 10.5°C in January 2016, and 26.5°C in August 2015 (Fig. 2A). Salinity on the COGImar location was between the minimal value of 13.8‰ in February 2015, and the maximum value of 35.2‰ in December 2015. On the Sveta Nedelja location, the minimum salinity value of 19.8‰ was recorded in February 2015, and the maximum values of 37.1‰ in December 2015 (Fig. 2B).

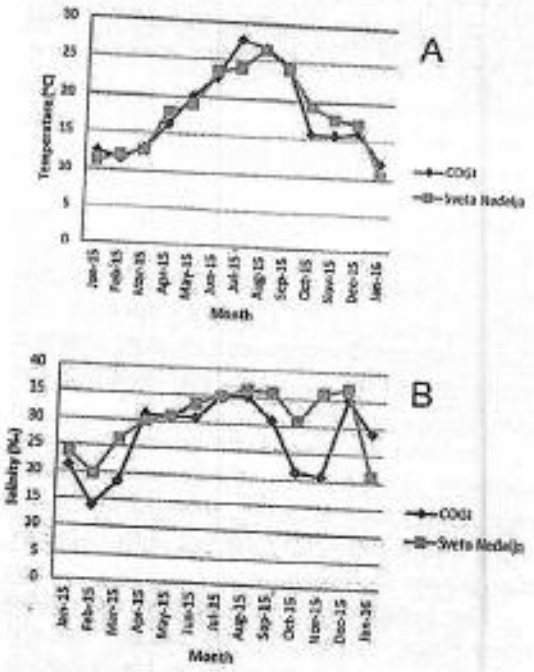

Fig. 2. Monthly temperature (A) and salinity (B) values on both localities (COGI and Sv. Nedelja)

Survival, mortality and growth rate

Table 1 shows number of dead individuals at each site for each measuring period. The highest mortality was observed during the first two measuring periods (Jan 15 - May 15) on all three sites.

The mean mussel length increase during the study period is given in Table 2. At all sites, all surviving individuals reached the prescribed market size (5 cm in length, as defined in the OFFICIAL GAZETTE OF MONTENEGRO (8/2011; 56/2009, 47/2015)) after 13 months. At the start of the experiment, the mussels were estimated to be around 8-10 months old. At the SVN site, all surviving individuals reached market size after only 8 months, which could indicate production cycle of around 16-18 months in monoculture conditions. After the same period at site NUD 81% of survived individuals reached market size, and on site NBL 76% of survived individuals reached market size for the same period.

Growth rate analysis (length, width, height) showed a statistically significant difference in both sampling period and sampling location (Table 3 - 5; Fig. 3). The growth in length was slowest during summer period (July-September), and the most rapid in spring (Mart-May) at all sites. The same results were obtained for growth in width and height. During all periods, mussels from the SVN and NUD sites showed similar growth in length, width and height, which was significantly higher compared to the NBL site.

Table 6 shows that the estimated growth rate parameters were highest for mussels from the SVN site (L_∞ = 69.18 mm, k = 1.95 year^{-1}), and lowest for the NBL site (L_∞ = 62.52 mm, k = 1.709 year^{-1}). On the NUD site estimated asymptotic length was L_∞ = 65.27 mm, with k = 2.079 year^{-1}.

Condition index

The highest values (34.47) of the condition index (CI) were recorded at the NUD site in May 2015, while the lowest values (19.28) were on the NBL site in September 2015. On all three sites, the lowest values of CI were in September

Table 1. Number of dead individuals at each site for each measuring period

Position	NBL	NUD	SVN
Jan'15-Mar'15	4	15	19
Mar'15-May'15	25	13	4
May'15-Jul'15	4	4	5
Jul'15-Sep'15	9	3	7
Sep'15-Nov'15	2	2	2
Nov'15-Jan'16	0	1	2

Table 2. The mean mussel length on the beginning and after 13 months

Position	NBL	NUD	SVN
Jan'15	4.38±0.39 cm	4.20±0.45 cm	4.23±0.35 cm
Jan'16	5.97±0.47 cm	6.37±0.56 cm	6.57±0.54 cm

Table 3. Analysis of growth increments for length using repeated-measures ANOVA with Tukey post hoc comparison

Factor	d.f.	*F*	*P*	*Post hoc* comparison
Period	5	179.63	<0.001	4 < 3 < 6 < 5 = 1 < 2
Site	2	36.32	<0.001	NBL < NUD = SVN
Interaction	10	5.34	<0.001	
Error	1248			

1 = Jan-Mar, 2 = Mar-May, 3 = May-Jul, 4 = Jul-Sep, 5 = Sep-Nov, 6 = Nov-Jan '16

Table 4. Analysis of growth increments for width using repeated-measures ANOVA with Tukey post hoc comparison

Factor	d.f.	*F*	*P*	*Post hoc* comparison
Period	5	138.87	<0.001	4 < 3 = 6 = 5 < 1 < 2
Site	2	36.55	<0.001	NBL < NUD = SVN
Interaction	10	10.16	<0.001	
Error	1248			

1 = Jan-Mar, 2 = Mar-May, 3 = May-Jul, 4 = Jul-Sep, 5 = Sep-Nov, 6 = Nov-Jan '16

Table 5. Analysis of growth increment for height using repeated-measures ANOVA with Tukey post hoc comparison

Factor	d.f.	*F*	*P*	*Post hoc* comparison
Period	5	91.91	<0.001	4 < 3 < 6 < 5 = 1 < 2
Site	2	32.18	<0.001	NBL < NUD = SVN
Interaction	10	8.27	<0.001	
Error	1248			

1 = Jan-Mar, 2 = Mar-May, 3 = May-Jul, 4 = Jul-Sep, 5 = Sep-Nov, 6 = Nov-Jan '16

Table 6. Growth parameters for mussels per sampling site

	SVN	NUD	NBL
L_∞ (mm)	69.18	65.27	62.52
k (year^{-1})	1.95	2.079	1.709

Table 7. Analysis of condition index according to site and month

Year	Month	ANOVA/KW	*Post hoc* comparison
2015	January	$F = 1.744^{NS}$	—
	February	$H = 4.267^{NS}$	—
	March	$F = 13.99^{***}$	NUD=NBL, SVN>NBL, SVN>NUD
	April	$F = 17.22^{***}$	NUD>NBL, SVN=NBL, NUD>SVN
	May	$F = 21.39^{***}$	NUD>NBL, SVN=NBL, NUD>SVN
	June	$F = 5.439^{**}$	NUD=NBL, SVN=NBL, SVN<NUD
	July	$F = 11.99^{***}$	NUD>NBL, SVN=NBL, NUD>SVN
	August	$F = 4.224^{*}$	NUD=NBL, SVN=NBL, NUD>SVN
	September	$H = 2.3446^{NS}$	—
	October	$F = 13.8^{***}$	NUD=NBL, NBL>SVN, NUD>SVN
	November	$F = 20.74^{***}$	NUD=NBL, NBL>SVN, NUD>SVN
	December	$F = 31.65^{***}$	NUD=NBL, NBL>SVN, NUD>SVN
2016	January	$F = 5.235^{**}$	NUD=NBL, NBL=SVN, NUD>SVN

* <0.05; ** < 0.01; *** <0.001; NS – not statistically significant

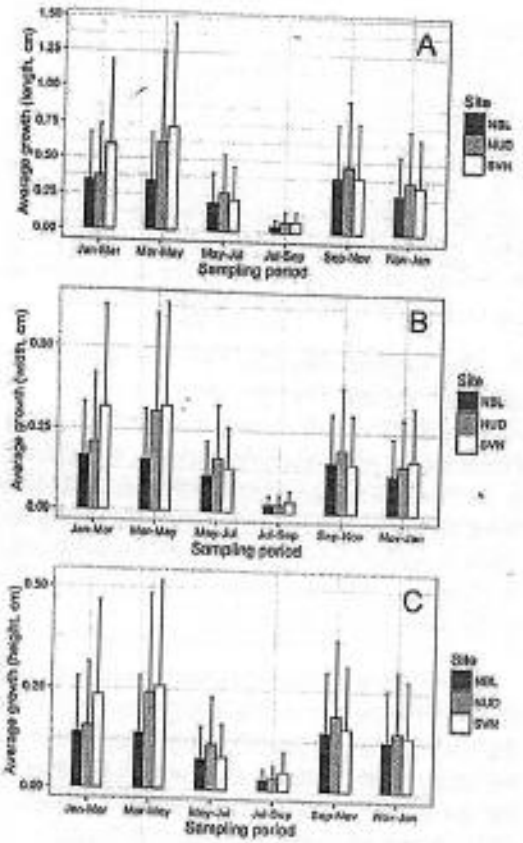

Fig. 3. Average growth increments and standard deviations for length (A), width (B), and height (C) according to sampling period and location

2015 (19.28 NBL; 21.18 NUD; 19.35 SVN). During the entire monitoring period the mean values of CI were higher on the NUD site compared to the other two sites (Fig. 4), except for February and March 2015. The analysis of condition index according to site and month is given in Table 7 and shows that there was no statistically significant difference in CIs at different sites during January, February and September 2015. From April until August 2015, as well as in January 2016, the CIs at the NBL and SVN sites were similar, while in the period from October to December the individuals from the NBL site had CI values which were statistically significantly higher than the CI values of individuals from the SVN site.

DISCUSSION

The results of this study revealed statistically significant difference between sampling period and sampling location in both growth and condition index of mussels.

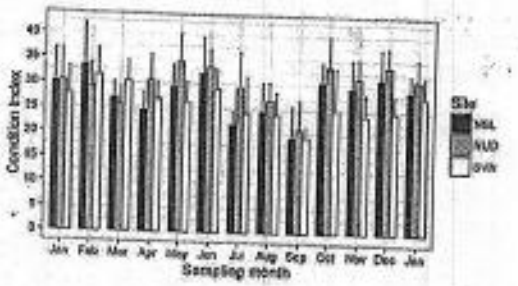

Fig. 4. Average monthly condition index and standard deviations according to month and sampling site

The obtained results indicate that growth in length, width and height at all three sampling sites was most intense in spring, and least intense in summer. These results agree with PEHARDA *et al.* (2007), who found the highest growth rates of mussels in period from March to May, which could indicate that the highest growth during the spring period can be the result of increased food aviability. On the other hand, results of this study partly agree with results reported by IRISARRI *et al.* (2014a), who found maximum growth in mussels during both spring and summer period. According to VAN ERKOM SCHURINK & GRIFFITHS (1992) as well as ŽUPAN & ŠARIĆ (2014), highest avaliability of food is at temperatures between 10°C and 20°C, when the recorded mussel growth is most intense, while the growth slows at temperatures above 20°C. Temperatures in the 10-20°C range are typical for the Adriatic in spring, with temperatures above 20°C typical for summer (AZCÁRATE *et al.*, 2005), which can help explain the results obtained.

Salinity has an indirect influence on growth, with lower salinity having a positive influence, but through the fact that areas with higher influx of freshwater (and thus lower salinity) have increased amount of nutrients (ŽUPAN & ŠARIĆ, 2014). Salinity values at the COGImar location were significantly lower during winter

and spring seasons, compared to Sveta Nedelja (Fig. 3). The NUD site, which is about 100 m removed from fish cages, is under a significant influence of underwater freshwater sources, as well as the freshwater influx form the land (BELLAFIORE *et al.* 2011), and the higher growth rates (in length, weight and height) at this site could be attributed, at least partially, to the increased amount of freshwater.

High growth rates in length, weight and height, which were recorded at the SVN site, similar to NUD, can be connected to the strong water currents in the Verige strait (>20 cm/s) (BELLAFIORE *et al.* 2011). The Sveta Nedelja mussel farm is located just off the mouth of the strait. KARAYÜCEL & KARAYÜCEL (2000) report higher growth rate of *Mytilus edulis* individuals exposed to water current influence, as stronger currents carry more nutrients. BAJNOCI (2014) found that mussels which were placed on the farthest point from fish cages had the highest growth rates in length, weight and height compared to those which were placed close to fish cages, but the differences were not statistically significant. NAVARRETE-MIER *et al.* (2010) also did not report significant differences in shell length growth of mussels on six different distances from fish cages. Results from IRISARRI *et al.* (2014a) showed similar shell length between mussels close to the fish farm and mussels distant from the fish farm.

Lower growth rates at the NBL site compared to SVN and NUD site could be affected by the large amount of fouling organisms detected during the entire year on this site. STJEPČEVIĆ (1974) reports that a large amount of fouling organisms "suffocates" the mussels, which stalls their growth, and can also cause increased mortality. Dominant fouling organism on NBL site was the White sea squirt (*Phallusia mammilata*, Cuvier 1815). Other fouling organism which were noted are: *Botryllus* spp., *Balanus* spp., European fan worm (*Sabella spallanzani*, Gmelin 1791), Keel worm (*Pomatoceros triqueter*, Linnaeus 1758) and Bryozoa (*Schizobrachiella sanguine*, Norman 1868). All of those organisms were also recorded on the other two localities, but in different abundances. On the SVN site Keel worm was more abundant that any other organisms, as well as the European fan worm, while on NBL and NUD site White sea squirt was the dominant organism. Also, on the NBL and NUD sites the green algae *Chaetomorpha* spp. and *Cladophora* spp. were abundant, especially during spring months. These differences in fouling can be explained by the differences in sea currents at different localities.

The highest mortality in our study was recorded during the the first two measurement periods on all three sites, which can be explained by stress and adaptation of individuals to the new conditions (ŽUPAN, 2012). On the other hand, higher mortality at the NBL site during the entire monitoring period could be explained by an increased presence of fouling organisms due to the proximity of fish cages.

It is known that condition index is an important parameter indicating the quality of shellfish (ŽUPAN & ŠARIĆ, 2014). The results of this study indicate that location did consistently influence the CI of mussels, with individuals 100 m removed from fish cages (NUD) showing higher CI values for the major part of the study compared to individuals at the other two sites (NBL, SVN), which were quite similar among themselves, exept for the colder period (October-December) when sites NBL and NUD were similar and had higher CI values. These results can indicate the fact that in colder months, when primay production is lower and there is little food available in water, mussels feed on the nutrients originating from fish farms . The benefits on mussels feeding on fish farm effluents were noted by MACDONALD *et al.* (2011).

This study's results regarding the CI are in accordance with those reported by SARÀ *et al.* (2009), LANDER *et al.* (2012) and ŽUPAN *et al.* (2014), who found a positive correlation between CI values in bivalves and their proximity to fish farms. IRISARRI *et al.* (2014b) found significantly higher CI in IMTA mussels than in monoculture individuals. On the other hand, the results of this study are not consistent with the results of TAYLOR *et al.* (1992) and CHESHUK *et al.* (2003),

who showed that there is no influence of salmon farming on CI of *M. edulis* and *M. planulatus*. IRISARRI *et al.* (2014a) has not found differences in CI values among mussels close to the fish farm and those distant from the fish farm. Also, NAVARRETE-MIER *et al.* (2010) did not report significant differences in dry weight of mussels farmed on six different distances from fish cages.

The results of this study also showed the lowest CI values during September 2015 at all three sites. This can be explained by the common spawning period of the mussel, which reaches its peak during spring and autumn (DARDIGNAC-CORBEL, 1990). However, even if the bibliographical data refer to spring spawning closely following the drop in CI values (MASON, 1976; OKUMUŞ & STIRLING, 1998; PEHARDA *et al.*, 2007), this was not recorded in this study. Rather, the CI values were relatively high at all three sampling sites. According to HRS-BRENKO (1980), water temperatures above 16°C have a significant effect on the reduction of sexual activity of mussels. It is important to mention that method for CI calculation in this study was based on "wet" method (ALMEIDA *et al.* 1999), while calculation of CI in most other studies was based on dried or cooked meat (FREEMAN, 1974; DAVENPORT & CHEN, 1987).

CONCLUSIONS

This study analysed the growth rate and condition index of *M. galloprovincialis* in integrated system and monoculture. The growth rate and condition index were monitored during a 13-month study at three different sites: 1) close to the fish cages (NBL), 2) 100 m far from fish cages (NUD), and 3) at a monoculture mussel farm (SVN). Significant differences in growth rate and condition index according to sampling period and location were found. The results showed a similar production cycle in monoculture and integrated multi-trophic systems. The highest mortality rate was recorded at the NBL site. The results of the study refer to the minimum market size of musels in Montenegro (5 cm shell length) (OFFICIALL GAZETTE OF MONTENEGRO, 8/2011; 56/2009, 47/2015). As such, the results of the study might not be directly applicable to areas with different minimum market sizes e.g. in Croatia, where mussel minimum market size is 6 cm (OFFICIAL GAZETTE OF THE REPUBLIC OF CROATIA, 63/10, 68/10, 145/10, 18/12, 29/12), although they should be considered indicative. CI results indicate the possibility that mussels feed on the nutrients from fish farm during periods when little food would naturally be available in water.

It is known that, besides temperature and salinity, the other important factors influencing growth in mussels are the availability of food, water current direction and population density (GOSLING, 1992), and that food availability and changes in the reproduction phases are the most important factors in CI variations (GOSLING, 1992), the obtained results suggest that a much more detailed study, which would include abiotic and biotic parameters on all sampling locations, should be performed in order to get more relevant results.

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Usporedba između IMTA i uzgoja dagnje u monokulturi (*Mytilus galloprovincialis* L.) u Bokokotorskom zaljevu

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SAŽETAK

Cilj ovog istraživanja bio je pokazati postojanja mogućih razlika u rastu i kondicijskom indeksu dagnji (*Mytilus galloprovincialis*) u integralnom multi-trofičkom uzgoju i uzgoju u monokulturi. Rast i kondicijski indeks praćeni su tijekom razdoblja od 13 mjeseci na tri postaje: 1) u blizini uzgajališta ribe (NBL), 2) 100 m od uzgajališta ribe (NUD), 3) u monokulturi (SVN) na uzgajalištu koje je oko 8 km udaljeno od kaveza sa ribom. Najintenzivniji rast zabilježen je tijekom proljetnog razdoblja, a najmanje intenzivan tijekom ljetnog. Nakon 13 mjeseci, praćene jedinke su na sve tri pozicije dostigle komercijalnu dužinu. Stopa rasta je bila slična na sve tri pozicije, dok je kondicijski indeks pokazao prostorne i vremenske razlike. Vrijednosti kondicionog indeksa na postaji NUD bile su više od vrijendosti na postajama SVN i NBL, koje su međusobno bile prilično slične, osim u razdoblju od listopada do prosinca kada su vrijednosti kondicijskog indeksa bile slične na postajama NBL i NUD, a veće u usporedbi sa vrijednostima na postaji SVN poziciji. Vrijednosti kondicionog indeksa na postajama NBL i NUD tijekom hladnog perioda godine ukazuju na to da se dagnje vjerovatno hrane nutrijentima porijeklom sa uzgajališta riba. Visoki mortalitet zabilježen je na postaji NBL, najvjerojatnije zbog obraštajnih organizama.

Ključne riječi: *Mytilus galloprovincialis*, integralna multi-trofička akvakultura, monokultura, Bokokotorski zaljev

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

POTVRDA

MSc Slađana Gvozdenović, student doktorskih studija na Prirodno-matematičkom fakultetu u Podgorici, dana **18.07.2019.** godine, dostavila je ovom Fakultetu doktorsku disertaciju pod nazivom ***"Integralni multi-trofički uzgoj dagnje (Mytilus galloprovincialis L.) I kamenice (Ostrea edulis L.) sa ribom u Bokokotorskom zalivu"***, na dalji postupak.

DEKAN

Prof. dr Predrag Miranović

Univerzitet Crne Gore
Prirodno-matematički fakultet

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Broj: 1801/1

Datum: 13 FEB 2019

Na osnovu člana 69 statuta Univerziteta Crne Gore i člana 41 Pravila doktorskih studija, na XXVIII sjednici Vijeća održanoj 08.02.2019. godine donijeta je

O D L U K A

I

Predlažemo Centru za doktorske studije i Senatu Univerziteta da imenuje komisiju za ocjenu doktorske disertacije "Integralni multi-trofički uzgoj dagnje (*Mytilus galloprovincialis* L.) I kamenice (*Ostrea edulis* L.) sa ribom u Bokokotorskom zalivu.", kandidata mr Slađane Gvozdenović, u sastavu:

1. Prof. dr Vladimir Pešić, Prirodno-matematički fakultet Univerziteta Crne Gore; (Naučna oblast: Ekologija i Biodiverzitet) – mentor;

2. Prof. dr Nada Blagojević, Metalurško tehnološki fakultet Univerziteta Crne Gore (Naučna oblast: Analitička hemija);

3. Prof. dr Ljiljana Tomović, Biološki fakultet, Univerzitet u Beogradu, (Naučna oblast: Ekologija i Biodiverzitet);

4. Prof. dr Drago Marić, Prirodno - matematički fakultet Univerziteta Crne Gore (Naučna oblast: Ekologija i Biodiverzitet) i

5. Dr Milica Mandić, viši naučni saradnik na Institutu za biologiju mora na Univerzitetu Crne Gore((Naučna oblast: Ihtioplankton i marikultura);

Obrazloženje

Mr Slađana Gvozdenović je predala doktorsku disertaciju pod nazivom " Integralni multi-trofički uzgoj dagnje (Mytilus galloprovincialis L.) I kamenice (Ostrea edulis L.) sa ribom u Bokokotorskom zalivu". Vijeće Prirodno-matematičkog fakulteta je utvrdilo da su ispunjeni uslovi iz člana 38 Pravila doktorskih studija, da kandidat mr Slađana Gvozdenović ima, kao prvi autor, rad sa rezultatima iz teze objavljen u časopisu sa SCI/SCIE liste. Samim tim su se steklu uslovi da se imenuje komisija za ocjenu pomenute doktorske disertacije.

DOSTAVLJENO

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

D E K A N

Prof. dr Predrag Miranović

LIČNI PODACI Slađana Gvozdenović

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Pol Ženski | Datum rođenja 17/06/1987| Nacionalnost Crnogorska

RADNO ISKUSTVO

01.09.2018- ... Saradnica u istraživanju

Institut za biologiju mora, Univerzitet Crne Gore

- Integralna multi-trofička akvakultura, zoobentos (Školjkaši), rad na nacionalnim i internacionalnim projektima, terenski rad, pripreme izvještaja i elaborata

15.01.2015 – 31.08.2018 Istraživač

Elektrotehnički fakultet, Univerzitet Crne Gore

- Integralna multi-trofička akvakultura, biotoksini, analitička hemija, zoobentos (Školjkaši), terenski rad, priprema izvještaja

28.08.2014 – 15.10.2014 Istraživač

Institut za biologiju mora, Univerzitet Crne Gore

- Terenski rad u oblasti marinske biologije

10.09.2012-10.09.2012 Pripravnica

Institut za biologiju mora, Univerzitet Crne Gore

- Laboratorijski i terenski rad u oblasti marinske biologije (hemijska analiza morske vode, ronjenje, biološka analiza morske vode, determinacija zoobentosa, priprema izvještaja)

EDUKACIJA

01.10.2014 - ... Student doktorand u oblasti ekologije

Prirodno-matematički fakultet, Departman za biologiju, Univerzitet Crne Gore

- Marinska biologija i ekologija, marikultura

01.10.2010 – 05.07.2013 Master u oblasti ekologije VII/2

Prirodno-matematički fakultet, Departman za biologiju, Univerzitet Crne Gore

- Biologija, Ekologija, Herpetologija

01.09.2009 – 10.09.2010 Specialista u oblasti ekologije VII/1

Prirodno-matematički fakultet, Departman za biologiju, Univerzitet Crne Gore

- Biologija, Ekologija

01.09.2006 – 01.09.2009 Bečelor biologije VI

Prirodno-matematički fakultet, Departman za biologiju, Univerzitet Crne Gore

- Biologija

VJEŠTINE I KOMPETENCIJE

Maternji jezik(ci) Crnogorski jezik

Drugi jezik(ci)

	RAZUMIJEVANJE		GOVOR		PISANJE
	Slušanje	Čitanje	Govorna interakcija	Govorna produkcija	
Engleski jezik	B2	B2	B2	B2	B2

Nivoi: A1/A2: Osnovno- B1/B2: Vrlo dobro - C1/C2 Odlično

Računarske vještine

SAMOSTALNA PROCJENA				
Obrada informacija	Komunikacija	Kreiranje sadržaja	Sigurnost	Rešavanje problema
Vrlo dobro	Vrlo dobro	Vrlo dobro	Vrlo dobro	Vrlo dobro

Levels: Osnovno - Vrlo dobro - Odlično

- Mikrosoft: MS Word, Excel, Internet explorer, Power Point
- Softveri za obradu slika: Adobe Photoshop, FastStone image viewer, Paint
- Statistički programi: Primer

Vozačka dozvola B

PROJEKTI

Systematic and Molecular genetic assessment of Aquatic Biodiversity in Montenegro I – koordinator Prof. dr Vladimir Pešić (Prirodno-matematički fakultet, Univerzitet Crne Gore) 2009. godina

Systematic and Molecular genetic assessment of Aquatic Biodiversity in Montenegro II – coordinator Doc dr Danilo Mrdak (Prirodno-matematički fakultet, Univerzitet Crne Gore) 2010. godine

Cheking the distribution and populations' status of the highly endangered Balkan Terrapin (*Mauremys rivulata*) in Montenegro – koordinator mr Vuk Iković (NVO Crnogorsko društvo ekologa) 2013. godina

Research, Conservation and Promotion of the Endemic Balkan Rock Lizards (*Dinarolacerta* spp.) in Montenegro – koordinator dr Katarina Ljubisavljević (NVO Crnogorsko društvo ekologa) 2014. godina

The olm (*Proteus anguinus*) in Croatia, Bosnia and Herzegovina and Montenegro – protection plan

Distribution and Treats to European pond turtle (*Emys orbicularis*) at Zeta and Bjelopavlići Plain at Montenegro – koordinator mr Ana Vujović (NVO Udruženje prirodnjaka Crne Gore) 2014. godina

Determination of the Degree of Vulnerability and Distribution Balkan Terrapin in Montenegro – koordinator mr Vuk Iković (NVO Crnogorsko društvo ekologa) 2015. godina

Distribution and conservation of highly endangered Karst Viper (*Vipera ursinii macrops*) in Montenegro – koordinator Vernes Zagora (NVO Crnogorsko društvo ekologa) 2014. godina

Distribution and Vulnerability of Highly Endangered Karst Viper in Central and North Part of Montenegro, and Preparing for Long-Term Monitoring – koordinator Vernes Zagora (NVO Crnogorsko društvo ekologa) 2016. godina

Distribution and Conservation of Vulnerable Blue Shark (*Prionace glauca*) in Coastal Waters of Montenegro – koordinator Ilija Ćetković (NVO Crnogorsko društvo ekologa) 2016. godina

Distribution and Conservation Three New and Three Threatened Species of Moss in Montenegro – koordinator mr Branko Anđić, 2016. godina

Assessing Threats and Setting Conservation Priorities for Endemic Balkan Rock Lizards (*Dinarolacerta* spp.) and their Habitats in the Mountains of Montenegro – koordinator dr Katarina Ljubisavljević (NVO Crnogorsko društvo ekologa) 2016. godina

AdriaMed project „Scientific Cooperation to Support Responsible Fisheries in the Adriatic Sea" – koordinator dr Aleksandar Joksimović (Institut za biologiju mora, Univerzitet Crne Gore) 2013, 2014, 2015, 2016. godina

Actions for ecological valorisation of Buljarica cove – koordinator dipl. biol. Mihajlo Jovićević (NVO Crnogorsko društvo ekologa) 2016. godina

Cross Border Marine Nature 2000 Mapping, Monitoring and Management – koordinator NVO Zeleni Dom, 2016. godina
The study, protection and possible breeding of Noble pen shell (*Pinna nobilis*) in Boka Kotorska Bay – koordinator dr Danijela Joksimović (Institut za biologiju mora, Univerzitet Crne Gore) 2016 – 2019. godina
Derelict fishing gear management system in the Adriatic Sea, koordinator dr Milica Mandić (Institut za biologiju mora, Univerzitet Crne Gore), 2013 – 2016. godina
Network of protected areas – Natura 2000 in Montenegro – koordinator AAM Consulting, 2016 – 2019. godina
Assessment of Demographic Structure and Protection Measures of the Balkan Terrapin (*Mauremys rivulata*) in Montenegro – koordinator Vuk Iković (NVO Crnogorsko društvo ekologa), 2018-2019. godina
Centre of Excellence in Bioinformatics – koordinator Prof. dr Igor Radusinović (Elektrotehnički fakultet, Univerzitet Crne Gore), 2014 – 2019 godina
Use of Mediterranean mussel and European oyster shells for heavy metal remove – koordinator dr Milica Mandić (Institut za biologiju mora, Univerzitet Crne Gore), 2016-2017. godina
Experimental farming of *Pecten jacobaeus* in the Boka Kotorska Bay – koordinator dr Milica Mandić (Institut za biologiju mora, Univerzitet Crne Gore), 2017-2018 godina
Monitoring of water quality at mussel and fish farms for the period 2015 – 2018 – koordinator dr Milica Mandić (Institut za biologiju mora, Univerzitet Crne Gore), 2015, 2016, 2017, 2018. godina
Regional network for biodiversity (BioNET) – koordinator Milica Kandić (NVO Zeleni Dom), 2017. godina
Research and Protection the Moss Biodiversity on Cijevna River – koordinator mr Branko Anđić, 2017-2018. godina
Welcome, WatEr LandsCapes sustainability thrOugh reuse of Marine littEr – koordinator dr Mandić Milica (Institut za biologiju mora, Univerzitet Crne Gore), 2018 – 2020. godina
Adopt a beach – koordinator dr Mandić Milica (Institut za biologiju mora, Univerzitet Crne Gore), 2018 – 2019 godina
Recycle and valorization of bivalve shells – koordinator dr Milica Mandić (Institut za biologiju mora, Univerzitet Crne Gore), 2019 – 2020. godina

TRENINZI/SEMINARI

Trening za upotrebu PCR metode na Institutu za Zoologiju, Grac 2009. godina
Trening za upotrebu PCR metode na Institutu za Zoologiju, Grac 2010. godina
Radionica za zaštitu riječne kornjače u oblasti zapadnog Balkana, Dubrovnik, maj 2013. godina
Radionica za kreiranje menadžment plana u ribarstvu kroz EAF, Rim, jun 2013. godina
Kurs ekološkog monitopringa u zaštićenim marinskim oblastima, Alikante, septembar 2013. godina
Trening Evropska Unija i Crna Gora – zakonodavstvo u oblasti životne sredine i primjena u praksi, Podgorica, novembar 2013. godina
Trening za plan i menadđment javnih kampanja u oblasti životne sredine, Podgorica, april, 2014. godina
Trening monitoringa, zaštite i praćenja ptica u zaštićenim močvarnim oblastima BiH i Crne Gore, Tivat, februar, 2014. godina
Trening održivog upravljanja u zaštićenim oblastima Crne Gore i BiH,Tivat, april 2014. godina
Trening za jačanje kapaciteta za mapiranje i monitoring u marinskim oblastima, Petrovac, jun 2016. Godina
Trening za izgradnju kapaciteta za mapiranje i monitoring u marinskim oblastima, Petrovac, septembar, 2016. godina
Trening rada na HPLC-u i detekciji biotoksina iz amnezijske i paralitičke grupe, Split, april, 2015
Trening rada na HPLC-u i detekciji biotoksina iz amnezijske i paralitičke grupe, Podgorica, oktobar, 2016
Trening rada na HPLC-u i detekciji biotoksina iz amnezijske i paralitičke grupe, Split, decembar, 2016
Trening rada na HPLC-u i detekciji biotoksina iz amnezijske i paralitičke grupe, Podgorica, mart, 2017
BioNET mreža u Natura 2000 menadžmentu zaštićenih oblast ii životinja, Žabljak, novembar, 2017. godina
Trening za jačanje kapaciteta za učešće u Horizon 2020, septembar 2017. godina

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Šukalo, G., Đorđević, S., **Gvozdenović, S.**, Simović, S., Anđelković, M., Blagojević, V. Tomović, Lj. (2014): Intra- and Inter-population variability of food preferences of two Natrix species on the Balkan Peninsula. Herpetological Conservation and Biology, 9(1):123-136
Gvozdenović, S. & Iković, V. (2014): The Capture of a spectacled caiman *Caiman crocodilius* Linnaeus, 1758 (Crocodylia, Alligatoridae) in Montenegro. Hyla, Vol. 2014, 1: 30-32
Iković, V. & **Gvozdenović, S.** (2014): First data about Black rat Rattus rattus Linnaeus, 1758 (Rodentia, Muridae) as a prey of Caspian whip snake *Dolichopis caspius* Linnaeus, 1758 (Serpentes, Colubridae). Hyla, Vol. 2014, 1: 22-24

Gvozdenović, S. & Schweiger, M. (2014): Melanism in *Natrix natrix* and *Natrix tessellata* (Serpentes: Colubridae) from Montenegro. Ecologica Montenegrina, 1(4), 2014: 231-233

Iković, V., Krasić, M. & **Gvozdenović, S.** (2014): A record of melanistic viviparous lizard *Zootoca vivipara* (Lichtenstein, 1823) (Squamata, Lacertidae) on Prokletije Mountain, Montenegro. Hyla, Vol. 2014, 2: 41-44

Gvozdenović, S. & Iković, V. (2014): Egg incubation period in the Hermann's tortoise *Testudo hermanni* Gmelin, 1789 (Testudines, Cryptodira, Testudinidae). Hyla, Vol. 2014, 2: 45-46

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Gvozdenović, S., Mandić, M. Drakulović, D. & Joksimović, A. (2015): The shellfish biotoxins. Agriculture & Forestry, 61(3): 135-142.

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Mandić, M., Ikica, Z. & **Gvozdenović, S.** (2016): Mariculture in the Boka Kotorska Bay. Tradition,Current State and Perspective. In: Joksimović, A. et al. (Ed.): The Boka Kotorska Bay Environment. Hdb Env Chem, DOI 10.1007/698_2016_33, Springer International Publishing Switzerland 2016

Gvozdenović, S., Mandić, M., Pešić, V., Nikolić, M., Pešić, A. & Ikica, Z. (2017): Comparison between IMTA and monoculture farming of mussels (*Mytilus galloprovincialis* L.) in the Boka Kotorska Bay. Acta Adriatica, 58(2): 271-284

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Drakulović, D., **Gvozdenović, S.**, Joksimović, D., Mandić, M., Pestorić, B. (2017): Toxic and potentially toxic phytoplankton in the mussel and fish farms in the transitional area of Montenegrin coast (South-eastern Adriatic Sea). Turkish Journal of Fisheries and Aquatic Sciences, 17: 885-900

Ljubisavljević, K., Tomović, Lj., Urošević, A., **Gvozdenović, S.**, Iković, V., Zagora, V., Labus, N. (2018): Species diversity and distribution of lizards in Montenegro. Acta Herpetologica, 13(1): 3-11

Peraš, I., **Gvozdenović, S.**, Petović, S., Mandić, M. (2018): Comparative analysis of bivalves diversity on experimental spat collectors. Water Research and Management, 8: 25-31

Zorica, B., Čikeč Keč, V., Pešić, A., **Gvozdenović, S.**, Kolitari, J., Mandić, M. (2018). Spatiotemporal distribution of anchovy larvae in the eastern part of Adriatic Sea. Journal of the Marine Biological Association of the United Kingdom, doi.org/10.1017/S0025315418001145.

Pestorić, B., Drakulović, D. & **Gvozdenović, S.** (2019): Composition of microbiology, phytoplankton and bio-toxins in water and mussel on fish and shellfish farms in Boka Kotorska Bay (SE Adriatic Sea). Journal of Agronomy, Technology and Engineering Management, 2(1): 207-217đ

Gvozdenović, S., Nikolić, M., Pešić, V., Peraš, I. & Mandić, M. (2019): First Data on the Alien Mollusc *Fulvia fragilis* (Forsskål in Niebuhr, 1775) (Cardiida: Cardiidae) from the Adriatic Sea. Acta Zoologica Bulgarica, 71 (2): 267-272.

Golubović, A., Tomović, Lj., Nikolić, M.Lj., Nikolić, S., Anđelković, M., Arsovski, D., Iković, V., **Gvozdenović, S.**, Popović, M. A. (2019): Distribution of Hermann's tortoise across Serbia with implications for conservation. Archives of Biological Science, DOI: 10.2298/ABS190406034G

Nikolić, M., Kuznetsova, T., Kholodkevich, S., **Gvozdenović, S.**, Mandić, M., Joksimović, D., Teodorović, I. (2019): Use of cardiac activity in the Mediterranean mussel (*Mytilus galloprovincialis* Lamarck, 1819) as a biomarker for assessing sea water quality in Boka Kotorska Bay, South Adriatic Sea. Mediterranean Marine Science, DOI:10.12681/mms.18119

Gvozdenović, S., Mačić, V., Mandić, M., Peraš, I. & Nikolić, M. (2019): Quantitative and qualitative composition of Veneridae (Bivalvia) in Boka Kotorska Bay (south Adriatic Sea). Studia Marina, 32(1): 14-25

Konferencije, simpozijumi

Gvozdenović, S., Pešić, V. & Tomović, Lj. (2013): Preliminary population study on Dice Snake – *Natrix tessellata* (Laurenti, 1786) from Skadar Lake, pp. 112-113. The Book of Abstracts and Programme, 5th International Symposium of Ecologists of Montenegro

Gvozdenović, S., Drakulović, D., Mandić, M. & Joksimović, A. (2015): Toxic and potentially toxic phytoplankton species in the Boka Kotorska Bay (Montenegro), pp. 58-59. The Book of Abstracts and Programme, 6th International Symposium of Ecologists of Montenegro

Gvozdenović, S., Mandić, M., Pešić, V., Ikica Z., Drakulović, D. (2016): Biotoxins and impact on human populations. 54th Congress of Anthropological Society of Serbia with international participation

Nikolić, M., Joksimović, A., **Gvozdenović, S.**, Joksimović, D., Pešić, A. (2016): System for environmental monitoring with aim of human population protection. 54th Congress of Anthropological Society of Serbia with international participation (ISBN 978-86-911461-3-9)

Pešić, A., Joksimović, A., IkicA, Z., Nikolić, M., **Gvozdenović, S.** (2016): Kondicioni faktor kod brancina (*Dicentrarchus labrax*) na uzgajalištu riba u Bokokotorskom zalivu. 45. Međunarodna konferencija o korišćenju i zaštiti voda

Drakulović, D., Pestorić, B., Mandić, M., **Gvozdenović, S.** & Joksimović, D. (2016): Spatial and temporal distribution of diatoms in shellfish farms in Boka Kotorska Bay (South-Eastern Adriatic Sea). 41th CIESM Congress, Kiel, Germany.

Gvozdenović, S. & Iković, V. (2016): Distribution and vulnerability of Balkan Terrapin (*Mauremys rivulata*) in Montenegro. The Rufford Small Grants Conference "Nature knows no boundaries"

Zagora, V., **Gvozdenović, S.** & Jelić, D. (2017): Preliminary data on distribution of the Karst Viper (Vipera ursinii macrops) in Montenegro. 7th International Symposium of Ecologist

Nikolić, M., **Gvozdenović, S.**, Kholodkevich, S., Kuznetsova, T., Kurakin, A. (2017): Valve movement in bivalves as a behavioral biomarker. 22nd Information Technologies

Mandić, M., **Gvozdenović, S.**, Joksimović, A., Pešić, A. (2017): Condition of cultured sea bass and sea bream and occurrence of their spawning in the cages in Boka Kotorska Bay. 22nd Information Technologies

Zagora, V., **Gvozdenović, S.**, Iković, V., Jelić, D. (2018): Distribution and Vulnerability of Highly Endangered Karst Viper (Vipera ursinii macrops) in Central and North Part of Montenegro. 27th Rufford Small Grants Conferences

Nikolić, M., Kholodkevich, S., Kuznetsova, T., **Gvozdenović, S.**, Mandić, M., Joksimović, D., Teodorović, I. (2018): Water quality assessment in the Boka Kotorska bay based on the heart rate of Mediterranean mussel (*Mytilus galloprovincialis* L.). 12th Panhellenic Symposium of Oceanography and Fisheries

Peraš, I., **Gvozdenović, S.**, Petović, S., Mandić, M. (2018): Uporedna analiza diverziteta školjki na eksperimentalnim kolektorima za prihvat mladji. 47th International conference on the use and protection of waters

Ljubisavljević, K., Tomović, Lj., Urošević, A., **Gvozdenović, S.**, Iković, V., Zagora, V., Labus, N. (2018): Updated distribution and diversity of lacertid lizards (Squamata, Lacertilia) in Montenegro. 10th Symposium on the lacertid lizards of the Mediterranean Basin & 2nd Symposium on the lizards of the Mediterranean Basin

Iković, V., **Gvozdenović, S.** (2018): Population characteristics of Balkan terrapin (*Mauremys rivulata*) in Montenegro. Explore and protect the natural beauty of Balkans, International Rufford Small Grants Conference

Gvozdenović, S., Mačić, V., Mandić, M., Peraš, I., Nikolić, M. (2019): Quantitative and qualitative composition of Veneridae (Bivalvia) in Boka Kotorska Bay, south Adriatic Sea. AdriBioPro2019 conference

Martinović R., Garcia-March, J.R., Vicente, N., Bunet, R.,Tena, J., Hernandis, S., Mačić, V., Petović, S., Castelli, A., Mitrić, M., Drakulović, D, **Gvozdenović, S.**, Joksimović, D. (2019): Pen shell (*Pinna nobilis*) parasite gets closer to Montenegrin coast – Status quo and future perspectives. AdriBioPro2019 conference

Gvozdenović, S., Mandić, M., Peraš, I., Malovrazić, N. (2019): Marine litter on Montenegrin beaches (south Adriatic Sea). 42nd CIESM congress.

Brošura

Peraš, I. & **Gvozdenović, S.** (2019): Marikultura: Brendiranje, Monitoring, Organska proizvodnja. Institut za biologiju mora, Univerzitet Crne Gore, 12 pp.

DODATNE INFORMACIJE

Član i osnivač NVO Crnogorsko društvo ekologa

Član herpetološkog kampa na ostrvu Golem Grad (Prespansko jezero, Makedonija), maj i avgust 2011. godina

Član herpetološkog kampa na Velebitu (Paklenica, Hrvatska), jul 2012. godina

Kurs ronjenja sa bocama, oktobar 2012. godina

Član terena na brodu „Dallaporta" u južnom Jadranu (Crna Gora, Albanija, Italija) za procjenu pelagičnih resursa, jul – avgust 2013. godina

Član terena na brodu „Dallaporta" u južnom Jadranu (Crna Gora, Albanija, Italija) za procjenu pelagičnih resursa, jul – avgust 2014. godina

Član terena na brodu „M/V Franklin" (Faroe islands) za geofizička i geotehnička istraživanja podmorja za polaganje kabla za struju, jul-oktobar, 2014. godina

Član terena na brodu „Dallaporta" u južnom Jadranu (Crna Gora, Albanija, Italija) za procjenu pelagičnih resursa, maj – jun 2015. godina

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Comparison between IMTA and monoculture farming of mussels (*Mytilus galloprovincialis* L.) in the Boka Kotorska Bay

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This paper presents the resuls of growth rate and condition index analysis of Mytilus galloprovincialis *in integrated system and monoculture. The aim of this study was to show if there are differences in growth and condition index of mussels between integrated multi-trophic aquaculture (IMTA) and monoculture farming. The growth rate and condition index were monitored during a 13-month study at three different sites: 1) close to fish cages (NBL), 2) 100 m removed from fish cages (NUD), 3) at a monoculture mussel farm (SVN) around 8 km far away from cages. The most intense growth of mussels was recorded in spring, and the least intense in summer. After 13 months, monitored individuals at all three locations achieved commercial size. The growth rate was very similar at all sites. The condition index showed spatial and temporal differences. Condition index values on site NUD were mostly higher compared to SVN and NBL, which were very similar, exept for the period from October to December when CI was similar on NBL and NUD site and higher in comparation with SVN. CI values on NBL an NUD site during cold period indicate on fact that mussels probably feed on the nutrients from fish farm origins.The highest mortality rate was recorded at the NBL site, probably due to the effects of fouling organisms.*

Key words: *Mytilus galloprovincialis*, integrated multi-trophic aquaculture (IMTA), monoculture, Boka Kotorska Bay

INTRODUCTION

Marine aquaculture or mariculture is a very important fish, crustacean, mollusc and algae production sector, which has the possibility to replace the reduced potential of natural resources (FAO, 2010). Nowadays, terms such as "integrated" and "multi-trophic" are increasingly used in relation to the concept of mariculture and aquaculture in general (CHOPIN & ROBINSON, 2004). Integrated multi-trophic aquaculture (IMTA) can be defined as the form of aquaculture where unconsumed fish food and fish metabolic products, which otherwise would have negative impact on the environment, can be used as a food source in another subsystem, leading to the increased productivity of the entire system under the complete control of the farmers (FAO, 2009; TROELL *et al.*, 2009; CHÁVEZ-CROOKER & OBREQUE-CONTRERAS, 2010). According to FAO (2004), one of the main goals of the aquaculture industry in the near future would be to minimize

negative impacts on the environment in order to achieve long-term viability. IMTA can be a good mechanism for achieving this goal, while also achieving another benefit — the increased economical productivity of the entire system (SARÀ *et al.*, 2009; RENDMOND *et al.*, 2010; SARÀ *et al.* 2011; ŽUPAN 2012; MACDONALD *et al.*, 2013; HOLDT & EDWARDS, 2014; AL-HAFEDH *et al.*, 2014; RATCLIFF *et al.*, 2015).

Integrated multi-trophic farming systems of various marine organisms are known worldwide (FAO, 2009; ABREU *et al.*, 2009; NAVARRETE-MIER *et al.*, 2010; REID *et al.*, 2010; HUGHES & KELLY, 2011; HANDÀ *et al.*, 2012; LANDER *et al.*, 2012; IRISARRI *et al.*, 2014a). The possibility of implementation of the integrated multi-trophic farming in the Mediterranean was well studied in the last ten years (PEHARDA *et al.*, 2007; NAVARRETE-MIER *et al.*, 2010; SARÀ *et al.*, 2011; ŽUPAN, 2012; ŽUPAN *et al.*, 2012; ŽUPAN *et al.*, 2013; ŽUPAN *et al.*, 2014; ISARRI *et al.*, 2014a). Bivalves are known as filter feeders and they could potentially remove organic matter as well as uneaten fish food from water (RENDMOND *et al.*, 2010). According to SARÀ *et al.* (2009) and MAZZOLA & SARÀ (2001) this process can reduce negative impact on environment. Some studies have shown that the farming period for achieving market size in integrated farming of mussels (*Mytilus galloprovincialis*) and fish is similar to that in commercial monoculture (PEHARDA *et al.*, 2007). On the other hand, SARÀ *et al.* (2011) demonstrated higher growth rate of mussels (*M. galloprovincialis*) and the European flat oyster (*Ostrea edulis*) found close to fish farms compared to those found at the open sea. Higher condition index values of Noah's Ark shell (*Arca noae*) near fish farm, and the nearly identical periods for achieving market size of mussels (*M. galloprovincialis*) in integrated farming and monoculture have been proven by ŽUPAN (2012).

Mediterranean mussel, *M. galloprovincialis* Lamarck 1819, is a widely distributed species, autochthonous to the Mediterranean (GISD, 2016). The mussel lives in colonies in the tidal zone, fastened to the substrate by byssal threads. It feeds on phytoplankton, bacteria, zooplankton and detritus (DAVENPORT *et al.*, 2000; PRATO *et al.*, 2010). Genders are separated, and the spawning occurs mostly in spring and autumn. The mussels are considered to be of market size when they are at least 5 cm in length (OFFICIAL GAZETTE OF MONTENEGRO, 8/2011; 56/2009, 47/2015).

The mussel farming tradition in the Boka Kotorska Bay area started about thirty years ago, although the first experiments regarding mussel and oyster farming begun in the 1960's (STJEPČEVIĆ, 1968). Today, there are 20 mussel farms in the Bay, all using floating park systems (long-lines). Gilthead sea bream (*Sparus aurata* Linnaeus, 1758) and European sea bass (*Dicentrarchus labrax* Linnaeus 1758) farming in the area started in the late nineties, and currently there are two farms (Orahovac and Stoliv) using the floating cage system farming method. The integrated farming of mussels and fish is used on both farms. In 2014, the mariculture production amounted to 45 t of sea bass, 38 t of sea bream, and 178 t of mussels (MONSTAT, 2015).

The main goal of this study was to obtain some data on IMTA farming, due to fact that this kind of farming has not been sufficiently studied in neither the Adriatic nor in the Mediterranean.

MATERIAL AND METHODS

Study area

The study was conducted on two locations in the Boka Kotorska Bay, Montenegro (South Adriatic) (Fig. 1). One location was the fish and mussel farm "COGImar" in the settlement of Orahovac, Kotor municipality, 42° 29′ 07.79″ N, 18° 44′ 42.47″ E. The second location was Sveta Nedelja mussel farm in the Kamenari settlement, municipality of Herceg Novi, 42° 27′ 30.89″ N, 18° 40′ 21.42″ E . The straight-line distance between the two study locations is 8 km. The COGImar farm farms Gilthead sea bream, European sea bass, Mediterranean mussel and European flat oyster in polyculture. On the COGImar localition two sites were chosen for the experimental part of the study: the mussel long-line closest to the floating fish cages (NBL), which was 10 m removed from the cages, and the mussel long-line furthest from the fich cages (about 100 m removed) (NUD). Sveta

Nedelja farm is a monoculture bivalve farm which produces Mediterranean mussel as well as the European flat oyster, and therefore only one site was selcted (SVN).

Fig. 1. Map showing the locations of sampling sites (NBL and NUD at COGI, SVN at Sv. Nedelja)

Experimental design

The growth experiment was set during a 13-month period, from January 2015 until January 2016. In January 2015, mussels of approximately the same size (mean length 4.27 ± 0.4 cm) and age (around 8-10 months) were taken form the experimental farm at the Institute of Marine Biology, University of Montenegro, in Kotor. Mussels were cleaned of fouling organisms the same day, and shell lengths, widths and heights were measured using vernier caliper to the nearest 0.1 mm. Individual mussels were marked using improvised tags. The tags were made from kitchen plastic waterproof mats (WelkHOME, Italy). The mats were cut to rectangles, approx. 12×5 mm in size, and markings etched on the surface using scalpel and soldering iron, with the markings visibility improved using waterproof felt-tip marker. Numbered tags were bonded to mussel shells with two-component waterproof adhesive (ABRO EPOXY STEEL, U.S.A.). During the marking process, duration of air exposure was around 2-3 minutes, until the adhesive hardened. Marked and measured mussels were placed in plastic baskets (48×29×5 cm, with 2 cm stretched mesh size) and suspended in water at depths between 2 and 3 m. At the COGImar location, 110 individuals were placed together on a farming line closest to the fish cages (NBL), and another 110 individuals on a farming line furthest from the fish cages (NUD). At the Sveta Nedelja location, 112 individuals were set together on a farming line (SVN). The mussels were checked every other month, removed from water, measured (length, width, height), cleaned from fouling organisms and resuspended in water.

Temperature and salinity on both localities were recorded monthly using the Multiline P4 WTW probe.

For condition index estimation, a total of 1,560 individual mussels of similar size and age (around 8-10 months) were taken from the experimental farm at the Institute of Marine Biology. Mussels were placed in nylon mesh nets (2-3 cm stretched mesh size). Fourty individual mussels were put in each net, with 13 nets per site (i.e. 39 nets in total). Nets were placed on NBL, NUD and SVN sites at depths between 2 and 3 m. Once per month, one net from each site was taken. From each net 30 individual mussels were taken and processed in the laboratory the same day. The condition index was determined as the ratio between wet mass of meat (WMM) and total weight (TW), according to ALMEIDA *et al.* (1999).

Statistical analyses

Growth ratios were tested using repeated-measures two-way ANOVA with Tukey post-hoc test. Parameters of von Bertalanffy's growth equation ($L_t=L_\infty [1-e^{-k(t-t_0)}]$) were estimated with analysis of growth increment data using Munro's method in the FISAT II v.1.2.2 statistical package (GAYANILO *et al.*, 2005).

The condition index samples were tested for normality of distribution of differences between each observation and the mean of its group using Kolmogorov-Smirnov test with Lilliefors significance correction.

The homogeneity of variance was tested using Fligner-Killeen test for samples that did not follow normal distribution, and with Bartlett test for those that did. Homoscedastic samples were then tested using one-way ANOVA, with

Tukey HSD (Honestly Significant Difference) used as a *post hoc* test. Heteroscedastic samples were analysed using Kruskal-Wallis rank sum test, with Dunn's test as a *post hoc* test.

RESULTS

Temperature and salinity

Minimum and maximum temperatures at the COGImar location ranged between 11.6°C in February 2015 and 27.9°C in July 2015. Temperature on the Sveta Nedelja location ranged between 10.5°C in January 2016, and 26.5°C in August 2015 (Fig. 2A). Salinity on the COGImar location was between the minimal value of 13.8‰ in February 2015, and the maximum value of 35.2‰ in December 2015. On the Sveta Nedelja location, the minimum salinity value of 19.8‰ was recorded in February 2015, and the maximum values of 37.1‰ in December 2015 (Fig. 2B).

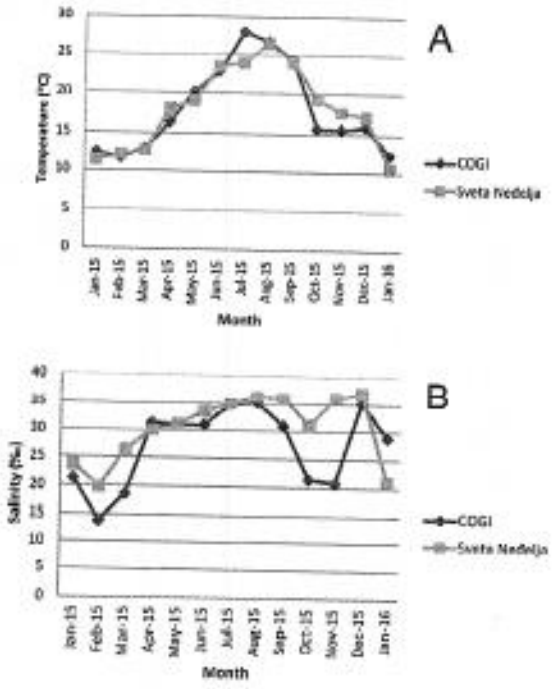

Fig. 2. Monthly temperature (A) and salinity (B) values on both localities (COGI and Sv. Nedelja)

Survival, mortality and growth rate

Table 1 shows number of dead individuals at each site for each measuring period. The highest mortality was observed during the first two measuring periods (Jan 15 - May 15) on all three sites.

The mean mussel length increase during the study period is given in Table 2. At all sites, all surviving individuals reached the prescribed market size (5 cm in length, as defined in the OFFICIAL GAZETTE OF MONTENEGRO (8/2011; 56/2009, 47/2015)) after 13 months. At the start of the experiment, the mussels were estimated to be around 8-10 months old. At the SVN site, all surviving individuals reached market size after only 8 months, which could indicate production cycle of around 16-18 months in monoculture conditions. After the same period at site NUD 81% of survived individuals reached market size, and on site NBL 76% of survived individuals reached market size for the same period.

Growth rate analysis (length, width, height) showed a statistically significant difference in both sampling period and sampling location (Table 3 - 5; Fig. 3). The growth in length was slowest during summer period (July-September), and the most rapid in spring (Mart-May) at all sites. The same results were obtained for growth in width and height. During all periods, mussels from the SVN and NUD sites showed similar growth in length, width and height, which was significantly higher compared to the NBL site.

Table 6 shows that the estimated growth rate parameters were highest for mussels from the SVN site (L_∞ = 69.18 mm, k = 1.95 year^{-1}), and lowest for the NBL site (L_∞ = 62.52 mm, k = 1.709 year^{-1}). On the NUD site estimated asymptotic length was L_∞ = 65.27 mm, with k = 2.079 year^{-1}.

Condition index

The highest values (34.47) of the condition index (CI) were recorded at the NUD site in May 2015, while the lowest values (19.28) were on the NBL site in September 2015. On all three sites, the lowest values of CI were in September

Table 1. Number of dead individuals at each site for each measuring period

Position	NBL	NUD	SVN
Jan'15-Mar'15	4	15	19
Mar'15-May'15	25	13	4
May'15-Jul'15	4	4	5
Jul'15-Sep'15	9	3	7
Sep'15-Nov'15	2	2	2
Nov'15-Jan'16	0	1	2

Table 2. The mean mussel length on the beginning and after 13 months

Position	NBL	NUD	SVN
Jan'15	4.38±0.39 cm	4.20±0.45 cm	4.23±0.35 cm
Jan'16	5.97±0.47 cm	6.37±0.56 cm	6.57±0.54 cm

Table 3. Analysis of growth increments for length using repeated-measures ANOVA with Tukey post hoc comparison

Factor	d.f.	*F*	*P*	*Post hoc* comparison
Period	5	179.63	<0.001	4 < 3 < 6 < 5 = 1 < 2
Site	2	36.32	<0.001	NBL < NUD = SVN
Interaction	10	5.34	<0.001	
Error	1248			

1 = Jan-Mar, 2 = Mar-May, 3 = May-Jul, 4 = Jul-Sep, 5 = Sep-Nov, 6 = Nov-Jan '16

Table 4. Analysis of growth increments for width using repeated-measures ANOVA with Tukey post hoc comparison

Factor	d.f.	*F*	*P*	*Post hoc* comparison
Period	5	138.87	<0.001	4 < 3 = 6 = 5 < 1 < 2
Site	2	36.55	<0.001	NBL < NUD = SVN
Interaction	10	10.16	<0.001	
Error	1248			

1 = Jan-Mar, 2 = Mar-May, 3 = May-Jul, 4 = Jul-Sep, 5 = Sep-Nov, 6 = Nov-Jan '16

Table 5. Analysis of growth increment for height using repeated-measures ANOVA with Tukey post hoc comparison

Factor	d.f.	*F*	*P*	*Post hoc* comparison
Period	5	91.91	<0.001	4 < 3 < 6 < 5 = 1 < 2
Site	2	32.18	<0.001	NBL < NUD = SVN
Interaction	10	8.27	<0.001	
Error	1248			

1 = Jan-Mar, 2 = Mar-May, 3 = May-Jul, 4 = Jul-Sep, 5 = Sep-Nov, 6 = Nov-Jan '16

Table 6. Growth parameters for mussels per sampling site

	SVN	NUD	NBL
L_{∞} (mm)	69.18	65.27	62.52
k (year^{-1})	1.95	2.079	1.709

Table 7. Analysis of condition index according to site and month

Year	Month	ANOVA/KW	*Post hoc* comparison
2015	January	$F = 1.744^{NS}$	—
	February	$H = 4.267^{NS}$	—
	March	F = 13.99***	NUD=NBL, SVN>NBL, SVN>NUD
	April	F = 17.22***	NUD>NBL, SVN=NBL, NUD>SVN
	May	F = 21.39***	NUD>NBL, SVN=NBL, NUD>SVN
	June	F = 5.439**	NUD=NBL, SVN=NBL, SVN<NUD
	July	F = 11.99***	NUD>NBL, SVN=NBL, NUD>SVN
	August	F = 4.224*	NUD=NBL, SVN=NBL, NUD>SVN
	September	$H = 2.3446^{NS}$	—
	October	F = 13.8***	NUD=NBL, NBL>SVN, NUD>SVN
	November	F = 20.74***	NUD=NBL, NBL>SVN, NUD>SVN
	December	F = 31.65***	NUD=NBL, NBL>SVN, NUD>SVN
2016	January	F = 5.235**	NUD=NBL, NBL=SVN, NUD>SVN

* <0.05; ** < 0.01; *** <0.001; ^{NS} – not statistically significant

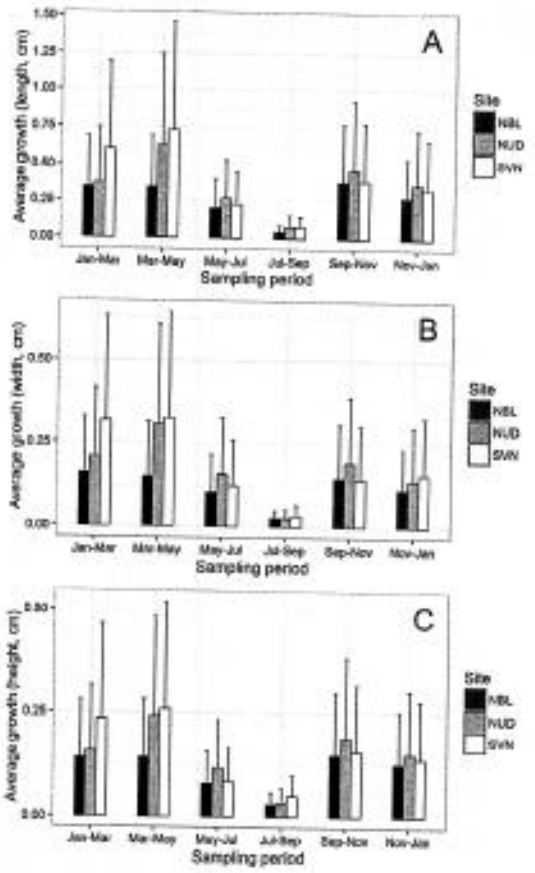

Fig. 3. Average growth increments and standard deviations for length (A), width (B), and height (C) according to sampling period and location

2015 (19.28 NBL; 21.18 NUD; 19.35 SVN). During the entire monitoring period the mean values of CI were higher on the NUD site compared to the other two sites (Fig. 4), except for February and March 2015. The analysis of condition index according to site and month is given in Table 7 and shows that there was no statistically significant difference in CIs at different sites during January, February and September 2015. From April until August 2015, as well as in January 2016, the CIs at the NBL and SVN sites were similar, while in the period from October to December the individuals from the NBL site had CI values which were statistically significantly higher than the CI values of individuals from the SVN site.

DISCUSSION

The results of this study revealed statistically significant difference between sampling period and sampling location in both growth and condition index of mussels.

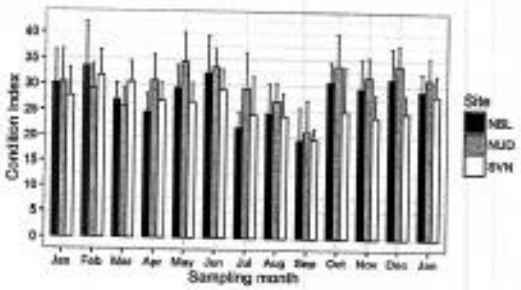

Fig. 4. Average monthly condition index and standard deviations according to month and sampling site

The obtained results indicate that growth in length, width and height at all three sampling sites was most intense in spring, and least intense in summer. These results agree with PEHARDA *et al.* (2007), who found the highest growth rates of mussels in period from March to May, which could indicate that the highest growth during the spring period can be the result of increased food aviability. On the other hand, results of this study partly agree with results reported by IRISARRI *et al.* (2014a), who found maximum growth in mussels during both spring and summer period. According to VAN ERKOM SCHURINK & GRIFFITHS (1992) as well as ŽUPAN & ŠARIĆ (2014), highest avaliability of food is at temperatures between 10°C and 20°C, when the recorded mussel growth is most intense, while the growth slows at temperatures above 20°C. Temperatures in the 10-20°C range are typical for the Adriatic in spring, with temperatures above 20°C typical for summer (AZCÁRATE *et al.*, 2005), which can help explain the results obtained.

Salinity has an indirect influence on growth, with lower salinity having a positive influence, but through the fact that areas with higher influx of freshwater (and thus lower salinity) have increased amount of nutrients (ŽUPAN & ŠARIĆ, 2014). Salinity values at the COGImar location were significantly lower during winter

and spring seasons, compared to Sveta Nedelja (Fig. 3). The NUD site, which is about 100 m removed from fish cages, is under a significant influence of underwater freshwater sources, as well as the freshwater influx form the land (BELLAFIORE *et al*, 2011), and the higher growth rates (in length, weight and height) at this site could be attributed, at least partially, to the increased amount of freshwater.

High growth rates in length, weight and height, which were recorded at the SVN site, similar to NUD, can be connected to the strong water currents in the Verige strait (>20 cm/s) (BELLAFIORE *et al*, 2011). The Sveta Nedelja mussel farm is located just off the mouth of the strait. KARAYÜCEL & KARAYÜCEL (2000) report higher growth rate of *Mytilus edulis* individuals exposed to water current influence, as stronger currents carry more nutrients. BAJNOCI (2014) found that mussels which were placed on the farthest point from fish cages had the highest growth rates in length, weight and height compared to those which were placed close to fish cages, but the differences were not statistically significant. NAVARRETE-MIER *et al.* (2010) also did not report significant differences in shell length growth of mussels on six different distances from fish cages. Results from IRISARRI *et al.* (2014a) showed similar shell length between mussels close to the fish farm and mussels distant from the fish farm.

Lower growth rates at the NBL site compared to SVN and NUD site could be affected by the large amount of fouling organisms detected during the entire year on this site. STJEPČEVIĆ (1974) reports that a large amount of fouling organisms "suffocates" the mussels, which stalls their growth, and can also cause increased mortality. Dominant fouling organism on NBL site was the White sea squirt (*Phallusia mammilata*, Cuvier 1815). Other fouling organism which were noted are: *Botryllus* spp., *Balanus* spp., European fan worm (*Sabella spallanzani*, Gmelin 1791), Keel worm (*Pomatoceros triqueter*, Linnaeus 1758) and Bryozoa (*Schizobrachiella sanguine*, Norman 1868). All of those organisms were also recorded on the other two localities, but in different abundances. On the SVN site Keel worm was more abundant that any other organisms, as well as the European fan worm, while on NBL and NUD site White sea squirt was the dominant organism. Also, on the NBL and NUD sites the green algae *Chaetomorpha* spp. and *Cladophora* spp. were abundant, especially during spring months. These differences in fouling can be explained by the differences in sea currents at different localities.

The highest mortality in our study was recorded during the the first two measurement periods on all three sites, which can be explained by stress and adaptation of individuals to the new conditions (ŽUPAN, 2012). On the other hand, higher mortality at the NBL site during the entire monitoring period could be explained by an increased presence of fouling organisms due to the proximity of fish cages.

It is known that condition index is an important parameter indicating the quality of shellfish (ŽUPAN & ŠARIĆ, 2014). The results of this study indicate that location did consistently influence the CI of mussels, with individuals 100 m removed from fish cages (NUD) showing higher CI values for the major part of the study compared to individuals at the other two sites (NBL, SVN), which were quite similar among themselves, exept for the colder period (October-December) when sites NBL and NUD were similar and had higher CI values. These results can indicate the fact that in colder months, when primay production is lower and there is little food available in water, mussels feed on the nutrients originating from fish farms . The benefits on mussels feeding on fish farm effluents were noted by MACDONALD *et al.* (2011).

This study's results regarding the CI are in accordance with those reported by SARÁ *et al.* (2009), LANDER *et al.* (2012) and ŽUPAN *et al.* (2014), who found a positive correlation between CI values in bivalves and their proximity to fish farms. IRISARRI *et al.* (2014b) found significantly higher CI in IMTA mussels than in monoculture individuals. On the other hand, the results of this study are not consistent with the results of TAYLOR *et al.* (1992) and CHESHUK *et al.* (2003),

who showed that there is no influence of salmon farming on CI of *M. edulis* and *M. planulatus*. IRISARRI *et al.* (2014a) has not found differences in CI values among mussels close to the fish farm and those distant from the fish farm. Also, NAVARRETE-MIER *et al.* (2010) did not report significant differences in dry weight of mussels farmed on six different distances from fish cages.

The results of this study also showed the lowest CI values during September 2015 at all three sites. This can be explained by the common spawning period of the mussel, which reaches its peak during spring and autumn (DARDIGNAC-CORBEL, 1990). However, even if the bibliographical data refer to spring spawning closely following the drop in CI values (MASON, 1976; OKUMUŞ & STIRLING, 1998; PEHARDA *et al.*, 2007), this was not recorded in this study. Rather, the CI values were relatively high at all three sampling sites. According to HRS-BRENKO (1980), water temperatures above 16°C have a significant effect on the reduction of sexual activity of mussels. It is important to mention that method for CI calculation in this study was based on "wet" method (ALMEIDA *et al.* 1999), while calculation of CI in most other studies was based on dried or cooked meat (FREEMAN, 1974; DAVENPORT & CHEN, 1987).

CONCLUSIONS

This study analysed the growth rate and condition index of *M. galloprovincialis* in integrated system and monoculture. The growth rate and condition index were monitored during a 13-month study at three different sites: 1) close to the fish cages (NBL), 2) 100 m far from fish cages (NUD), and 3) at a monoculture mussel farm (SVN). Significant differences in growth rate and condition index according to sampling period and location were found. The results showed a similar production cycle in monoculture and integrated multi-trophic systems. The highest mortality rate was recorded at the NBL site. The results of the study refer to the minimum market size of musels in Montenegro (5 cm shell length) (OFFICIALL GAZETTE OF MONTENEGRO, 8/2011; 56/2009, 47/2015). As such, the results of the study might not be directly applicable to areas with different minimum market sizes e.g. in Croatia, where mussel minimum market size is 6 cm (OFFICIAL GAZETTE OF THE REPUBLIC OF CROATIA, 63/10, 68/10, 145/10, 18/12, 29/12), although they should be considered indicative. CI results indicate the possibility that mussels feed on the nutrients from fish farm during periods when little food would naturally be available in water.

It is known that, besides temperature and salinity, the other important factors influencing growth in mussels are the availability of food, water current direction and population density (GOSLING, 1992), and that food availability and changes in the reproduction phases are the most important factors in CI variations (GOSLING, 1992), the obtained results suggest that a much more detailed study, which would include abiotic and biotic parameters on all sampling locations, should be performed in order to get more relevant results.

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Usporedba između IMTA i uzgoja dagnje u monokulturi (*Mytilus galloprovincialis* L.) u Bokokotorskom zaljevu

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SAŽETAK

Cilj ovog istraživanja bio je pokazati postojanja mogućih razlika u rastu i kondicijskom indeksu dagnji (*Mytilus galloprovincialis*) u integralnom multi-trofičkom uzgoju i uzgoju u monokulturi. Rast i kondicijski indeks praćeni su tijekom razdoblja od 13 mjeseci na tri postaje: 1) u blizini uzgajališta ribe (NBL), 2) 100 m od uzgajališta ribe (NUD), 3) u monokulturi (SVN) na uzgajalištu koje je oko 8 km udaljeno od kaveza sa ribom. Najintenzivniji rast zabilježen je tijekom proljetnog razdoblja, a najmanje intenzivan tijekom ljetnog. Nakon 13 mjeseci, praćene jedinke su na sve tri pozicije dostigle komercijalnu dužinu. Stopa rasta je bila slična na sve tri pozicije, dok je kondicijski indeks pokazao prostorne i vremenske razlike. Vrijednosti kondicionog indeksa na postaji NUD bile su više od vrijendosti na postajama SVN i NBL, koje su međusobno bile prilično slične, osim u razdoblju od listopada do prosinca kada su vrijednosti kondicijskog indeksa bile slične na postajama NBL i NUD, a veće u usporedbi sa vrijednostima na postaji SVN poziciji. Vrijednosti kondicionog indeksa na postajama NBL i NUD tijekom hladnog perioda godine ukazuju na to da se dagnje vjerovatno hrane nutrijentima porijeklom sa uzgajališta riba. Visoki mortalitet zabilježen je na postaji NBL, najvjerojatnije zbog obraštajnih organizama.

Ključne riječi: *Mytilus galloprovincialis*, integralna multi-trofička akvakultura, monokultura, Bokokotorski zaljev

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First Data on the Alien Mollusc *Fulvia fragilis* (Forsskål in Niebuhr, 1775) (Cardiida: Cardiidae) from the Adriatic Sea

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Abstract: The first record of *Fulvia fragilis* (Forsskål in Niebuhr, 1775) from the Adriatic Sea is presented. Two empty shells of *F. fragilis* were found in the area of the Boka Kotorska Bay (South Adriatic Sea), in front of the St. Marko Island. The shipping/maritime transport is the assumed vector of introduction. An overview of the recent findings of this species in the Mediterranean Sea is given.

Key words: *Fulvia fragilis*, Lessepsian migrants, Boka Kotorska Bay, Bivalvia

Introduction

An alien species is an organism occurring outside of its known or consensual range (Occhipinti-Ambrogi & Galil 2004). Such species can negatively affect native species trough different processes, such as predation, competition, introduction of genes – hybridisation, parasite and pathogens diffusion (Strayer et al. 2006). Generally recognised main vectors of introduction of alien species into the Mediterranean waters are: migration through the Suez Canal, also called "Lessepsian migration", transportation on ship hulls (as fouling organisms) and with ballast waters, intentional introduction (mariculture), market discards and other aquaculture-related activities - aquariology (Por 1978, Zibrowius 1992, Katsanevakis et al. 2013, Zenetos et al. 2017). Additionally, the global warming can also be considered as one of the reasons for introduction of species into new areas (Rattsos et al. 2010).

Fulvia fragilis (Forsskål in Niebuhr, 1775) is a common species with established populations in Egypt, Israel, Lebanon, Cyprus, Turkey, Greece, Italy, Malta, Albania, Tunisia and Spain (Moazzo 1939, Gofas & Zenetos 2003, Zenetos et al. 2003, 2008, 2009, Passamonti 2006, Goud & Mifsud 2009, Crocetta et al. 2008, 2013, Gerovasileiou et al. 2017). It is recognised as a "Lessepsian migrant" (see Zenetos et al. 2003). *Fulvia fragilis* inhabits littoral to shallow waters 9-37 m deep, with sandy and (or) muddy bottoms as well as sandy bottoms together with *Zostera* spp. Its shell is fragile, equivalve, slightly inequilateral and can reach up to 75 mm in height. Outline of shell is almost circular, with rounded anterior margin; posterior part more or less transversely expanded, possessing c. 41 ribs (34-52). Ribs are generally rounded in the anterior part, flatly rounded to asymmetrically triangular in the median third of the shell; rounded with calcareous spines or tubercles in posterior part. Width of ribs and interstices generally equal, with width of interstices of first anterior ribs sometimes wider. In each valve, anterior and posterior lateral teeth present as well as two cardinal teeth. Internal margin crenulated; with two sub-equal adductor muscle scars. Pallial line broad, without a sinus. Internal surface nearly smooth from umbo to mid-height of valves, and radially ribbed ventralward. External colour of valves whitish-beige to yellow, with purple stain on umbo, while interior is white with purple colour in the posterior third and sometimes in the umbonal cavity (Zenetos et al. 2003, Öztürk & Poutiers 2005).

Native populations of *F. fragilis* are distributed throughout the Indian Ocean, from the Red Sea and the Persian Gulf to Mozambique and Madagascar (Vidal 1994). Since its first record from the Mediterranean Sea, it colonised almost the whole basin until the Otranto Strait (the channel linking the Adriatic and Ionian Seas) (Moazzo 1939, Gofas & Zenetos 2003, Zenetos et al. 2003, 2008, 2009, Passamonti 2006, Goud & Mifsud 2009, Crocetta et al. 2008, Gerovasileiou et al. 2017). Many authors presumed that shipping is the introduction vector for this species, since reports have usually come from harbours (e.g. Zenetos et al. 2003, Galil 2008, Occhipinti-Ambrogi et al. 2010, Gerovasileiou et al. 2017).

In this article, we present the first report of *F. fragilis* from the Adriatic Sea.

Materials and Methods

The study was performed at the locality of St. Marko (42°41′ N, 18°69′ E), in Tivat Bay (Boka Kotorska Bay, Montenegro, Fig. 1) in the course of the estimation of the distribution and biomass of edible bivalves in the area of the Boka Kotorska Bay during two seasons (May and October, 2016). Sampling was done by SCUBA diving along a 100-m transect. The collected material was identified according to Zenetos et al. (2003), Öztürk & Poutiers (2005) and Huber (2010). Measurements were taken using a calliper (precision of 0.1 mm).

The scientific literature was reviewed in order to show temporal changes in the distribution of *F. fragilis* in the Mediterranean, with numbering corresponding to that in Fig. 3 (1. Moazzo 1939; 2. Barash & Danin 1973; 3. Ghisotti 1974; 4. Barash & Danin 1977; 5. Lindner 1988; 6. Enzenross et al. 1990; 7. Niederhöfer et al. 1991; 8. Fischer 1993; 9. Buzzurro & Greppi 1996; 10. Passamonti 1996; 11. Vardala-Theodorou 1999; 12. Delamotte & Vardala-Theodorou 2001; 13. Enzenros & Enzenros 2001; 14. Ben Souissi et al. 2003; 15. Zenetos et al. 2003; 16. Crocetta 2005; 17. Zenetos et al. 2005; 18. Öztürk & Poutiers 2005; 19. Çinar et al. 2006; 20. Crocetta et al. 2008; 21. Tamayo-Goya 2008; 22. Zenetos et al. 2008; 23. Brancato & Reittano 2009; 24. Crocetta et al. 2009; 25. Goud & Mifsud 2009; 26. López Soriano et al. 2009; 27. Zenetos et al. 2009; 28. Doneddu 2010; 29. Mahmoud et al. 2011; 30. Rifi et al. 2011; 31. Rifi et al. 2012; 32. Angelidis 2013; 33. Crocetta et al. 2013; 34. Marchini et al. 2013; 35. Sperone et al. 2015; 36. Lipej et al. 2017; 37. Gerovasileiou et al. 2017; 38. Crocetta et al. 2017; 39. Present study). The data were divided into five periods: 1939–1960; 1961–1980; 1981–2000; 2001–2010; 2011–present.

Results

The first record of *F. fragilis* in the Adriatic Sea (Montenegrin coast) represented two empty shells.

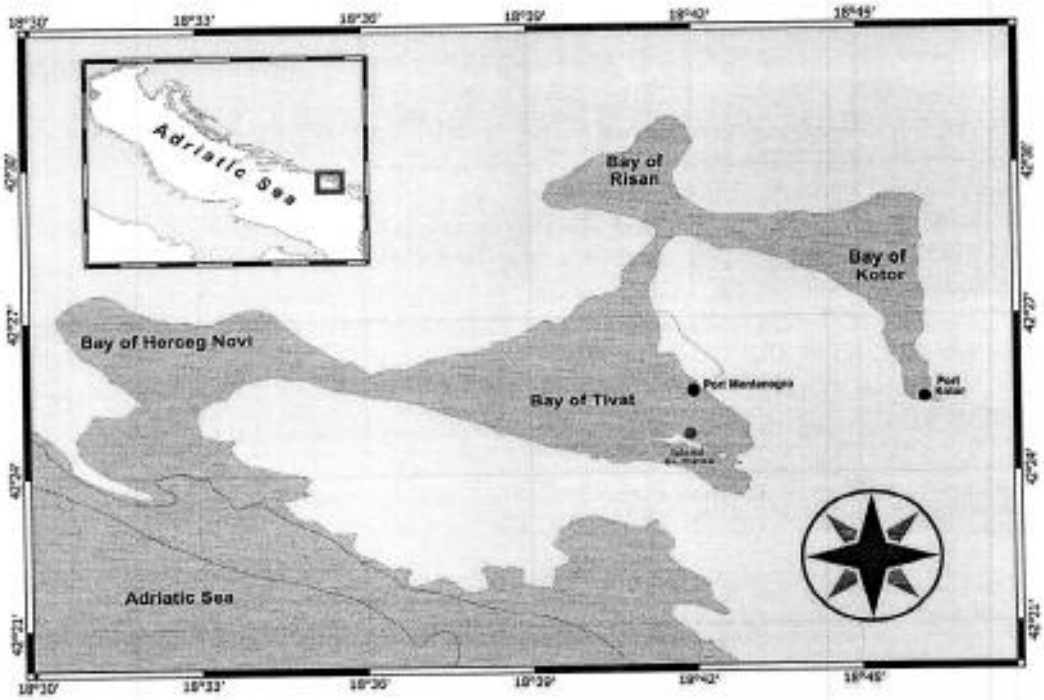

Fig. 1. Map showing the locality where *Fulvia fragilis* was found, as well as the position of the marina Porto Montenegro and harbour Port of Kotor.

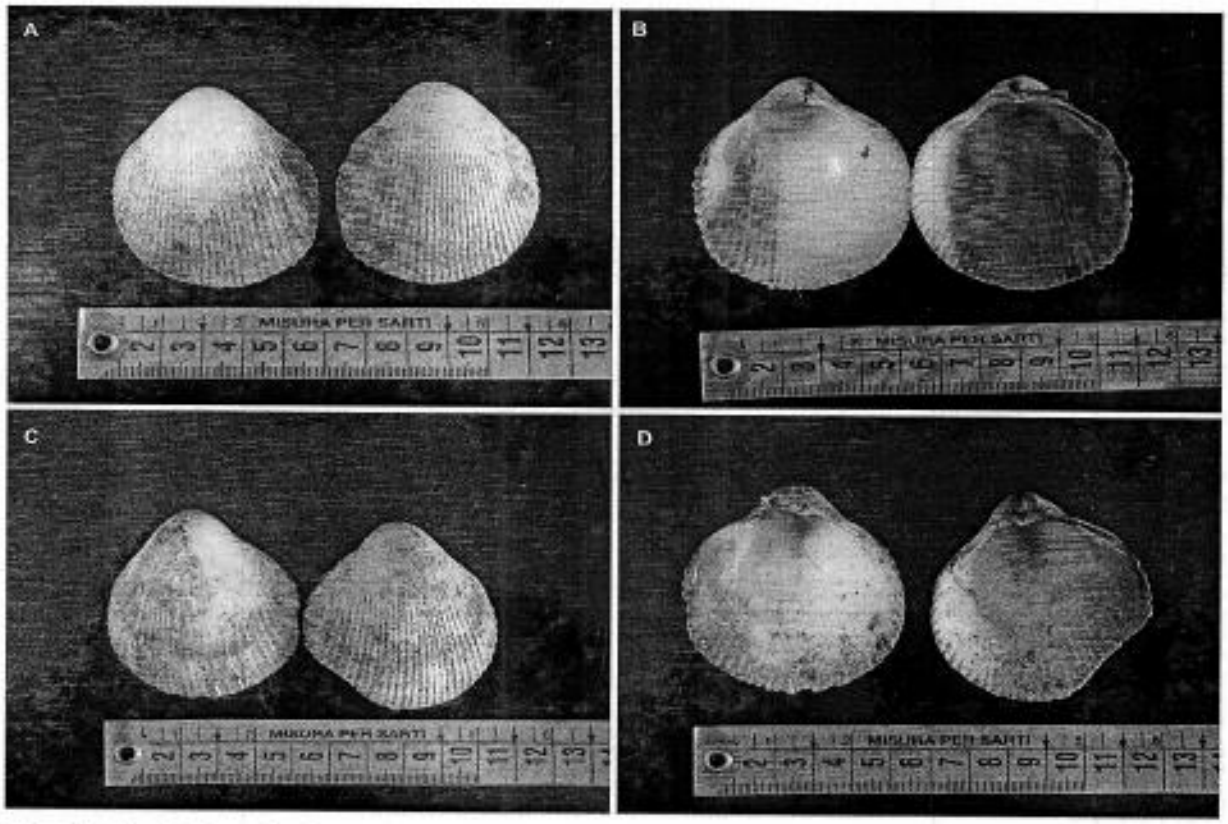

Fig. 2. Shells of *Fulvia fragilis*, outside and inside, found in front of the St. Marko Island; A and B shell found on 6th October 2016; C and D shell found on 11th May 2016.

The first shell of *F. fragilis*, found on the 11th May 2016, was 56.5 mm long. The external part of the shell was white-beige with a purple stain on the umbo and had 40 ribs, while the interior was white with purple colour in the posterior third and in the umbonal cavity. The second shell, found on the 6th October 2016, was 56 mm long and had 39 ribs. Its interior was white with purple colour restricted to the posterior third. Both shells were fragile, almost circular with rounded anterior margin, as well as obliquely expanded posterior part. In each valve, anterior and posterior lateral teeth were present, as well as two cardinal teeth. The internal margin was crenulated and two not so evident adductor muscle scars were present internally, as well as a pallial line without a sinus. The internal surface from umbones to mid-height of valves was almost smooth and radially ribbed ventralward (Fig. 2).

The maximum depth of the transect was 12 m and the area surveyed at the depth up to 5 m was characterised by a rocky-gravel bottom and the seaweeds *Cystoseira foeniculacea* (Linnaeus) Greville, 1830 and *Acetabularia acetabulum* (Linnaeus) P.C. Silva, 1952, followed by the seagrasses *Cymodocea nodosa* (*Ucria*) Ascherson, 1870 and *Posidonia oceanica* (Linnaeus) Delile, 1813 meadows, where a large number of the bivalve *Pinna nobilis* (Linnaeus, 1758) was present. This section was followed by a steep abruption of the bottom (4 m deep) and at the depth of 9 m to12 m the bottom was sandy-muddy and muddy.

The species had apparently been present in this area for a certain period of time, since both shells, judging by their length, were adults. No living specimens or shell residues were found in surveys carried along the same transect during 2015 and 2017. Further research is needed to evaluate the establishment status of the species in the area.

Discussion

The occurrence of *F. fragilis* in the Adriatic Sea has been expected, especially due to the number of findings and its progression throughout the Mediterranean Sea (Fig. 3). The site where it was found, the Island of St. Marko, is located in the vicinity of the "Porto Montenegro" marina, so it is highly probable that this species was introduced by shipping (maritime) transport (Fig. 1). *Fulvia fragilis* is considered as a Lessepsian migrant but its spreading in the Mediterranean Sea seems to be not only through natural dispersal but also via shipping, since it has

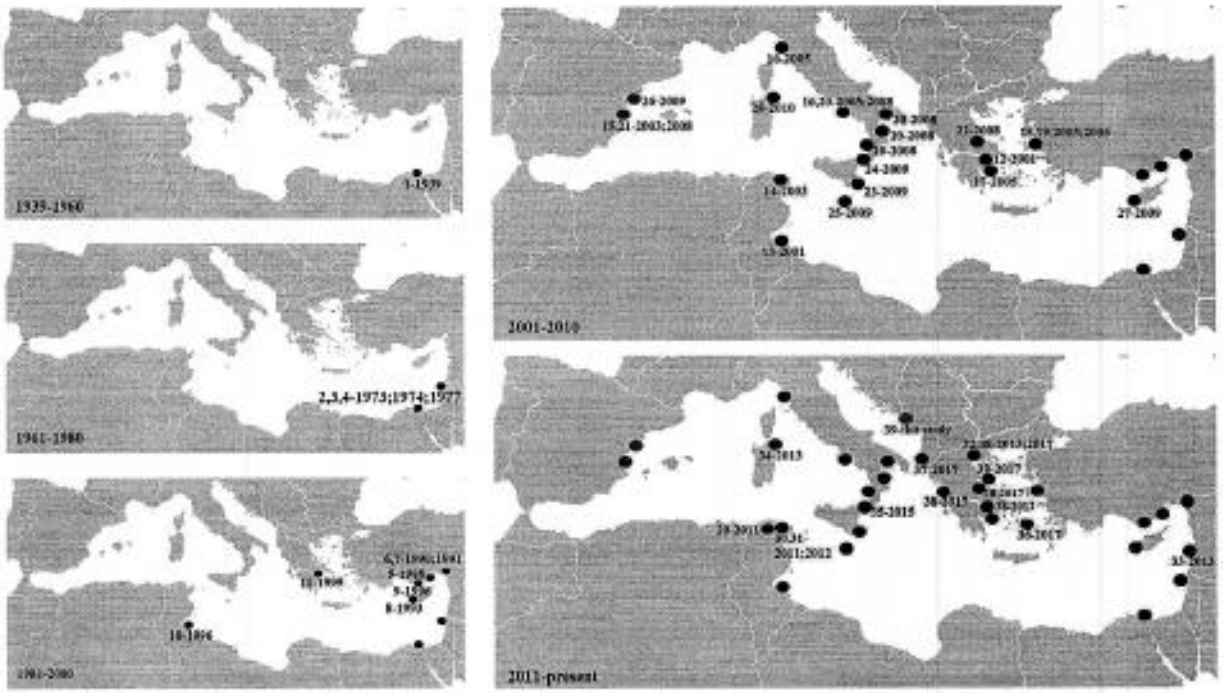

Fig. 3. Mediterranean spreading of *Fulvia fragilis* divided into five periods (1939–1960; 1961–1980; 1981–2000; 2001–2010; 2011–present). For numbering of the sites, see Materials and Methods.

been often found near harbours (Gerovasileiou et al. 2017). Zenetos et al. (2004) indicate the typical Lessepsian migrant distribution of *F. fragilis* (recorded in the Suez Canal, then in Israel, Tunisia and S. Turkey) but also suggest transport via shipping based on records in the vicinity of harbours.

Further spreading of *F. fragilis* in the Boka Kotorska Bay can be expected as the bay is home to a number of important harbours such as "The Port of Kotor" (one of the busiest ports in the segment of cruise tourism with more than 350 passenger ships throughout a year). Moreover, further spreading of this species along the Adriatic Sea coast is expected to occur in the years to follow.

The Mediterranean records and temporal changes in distribution of *F. fragilis* from the first record in 1939 up to 2018 are presented in Fig. 3. Spreading has typical east-west character, with early first records in the East and one record in Central Mediterranean up until 2000. During the period 2001–2010, the species has spread in Greece, the Central and West Mediterranean Sea and has been reconfirmed in the Gulf of Tunis, Eleusis Bay and Phapos. Also in this period, the most northern Mediterranean finding was recorded in Livorno (Crocetta 2005). Since 2011 up to present, some new records have been indicated in Greece and the species has been reconfirmed for the Eleusis Bay, Evvoikos Gulf, Tunisia Bay, Olbia and Messina Strait. In the same period, the first record for *F. fragilis* for Albania (Vlore Bay, Strait of Otranto) was published (Gerovasileiou et al. 2017). Our finding in the Boka Kotorska Bay presents its first record for Montenegro, as well as for the Adriatic Sea.

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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
Ректор
Академик Владимир Бумбаширевић

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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

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

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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. **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.
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. **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.
5. **Nataša Nikolić** (2012). «Reprodukcija zmija». Komisija: **dr Ljiljana Tomović** (mentor), Sonja Đorđević. Biološki fakultet Univerziteta u Beogradu.
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.

7. **Jasna Rajić** (2016). «Analiza rodentofaune Poćute». Komisija: **dr Ljiljana Tomović** (mentor), dr Saša Marić. Biološki fakultet Univerziteta u Beogradu.
8. **Ana Cvetković** (2017). «Etološke odlike populacije ribarice (*Natrix tessellata*) sa ostrva Golem Grad na Prespanskom jezeru (Republika Makedonija)». Komisija: **dr Ljiljana Tomović** (mentor), dr Ana Golubović (mentor). Biološki fakultet Univerziteta u Beogradu.
9. **Milica Lajić** (2017). «Reproduktivne odlike populacije ribarice (*Natrix tessellata*) sa ostrva Golem Grad na Prespanskom jezeru (Republika Makedonija)». Komisija: **dr Ljiljana Tomović** (mentor), dr Ana Golubović. Biološki fakultet Univerziteta u Beogradu.
10. **Neda Bogdanović** (2018). «Procena uticaja saobraćajne infrastrukture na populacije vodozemaca i gmizavaca na području Obedske bare (Vojvodina)». Komisija: **dr Ljiljana Tomović** (mentor), dr Ana Golubović. Biološki fakultet Univerziteta u Beogradu.

UČEŠĆE U KOMISIJAMA:

ZA ODBRANU DOKTORSKE DISERTACIJE:

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.
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.
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. **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.
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.
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.
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.

ZA ODBRANU MAGISTARSKE TEZE:

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.

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. **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.
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.

ZA ODBRANU DIPLOMSKOG ILI MASTER RADA:

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.
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.
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.
4. **Goran Sekulić** (2002). "Prilog poznavanju ornitofaune Makiškog rita". Komisija: dr Saša Marinković (mentor), **mr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu.
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.
6. **Biljana Macura** (2006). «Diverzitet gmizavaca Nacionalnog parka Đerdap». Komisija: dr Jelka Crnobrnja-Isailović (mentor), **dr Ljiljana Tomović**. Biološki fakultet Univerziteta u Beogradu.
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.
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.
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.
10. **Nenad Smiljković** (2008). «Diverzitet herpetofaune Gornje Pčinje sa okolinom». Komisija: dr Jelka Crnobrnja-Isailović (mentor), dr Vladimir Ranđelović, **dr Ljiljana Tomović**. Odsek za biologiju i ekologiju, PMF Univerziteta u Nišu.

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**.
12. **Jelena Krstić** (2009). «Zmije Balkanskog poluostrva». Komisija: dr Dragana Miličić (mentor), **dr Ljiljana Tomović**, dr Predrag Simonović. Biološki fakultet Univerziteta u Beogradu.
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.

DRŽANJE NASTAVE NA KURSEVIMA:

1. Uporedna morfologija i sistematika hordata (osnovne studije) (1996.-2007.)
2. Uporedna morfologija Vertebrata (osnovne studije) (1996.-2007.)
3. Sistematika i filogenija životinja (osnovne studije) (1998.-2007.)
4. Sistematika i filogenija hordata (osnovne studije) (2008.-2011.)
5. Biologija odabranog taksona 1 – gmizavci (2007.-2011.)
6. Biologija odabranog taksona 2 – gmizavci (2007.-2011.)
7. Biologija odabranog taksona 3 – gmizavci (2007.-2011.)
8. Molekularna sistematika (doktorske studije) (2006.-2011.)
9. Uzorkovanje i priprema materijala – gmizavci (doktorske studije) (2007.-2011.)
10. Populaciona i evoluciona biologija odabrane grupe (doktorske studije) (2007.-2011.)
11. Specijalni kurs faunistike (doktorske studije) (2007.-2011.)
12. Specijalni kurs morfol., sistem. i filog. (doktorske studije) (2007.-2011.)
1. Sistematika i filogenija hordata (osnovne studije) (2012.-)
2. Biologija odabranog taksona 1 (master studije) (2012.-)
3. Biologija odabranog taksona 2 (master studije) (2012.-)
4. Evolucija hordata (master studije) (2012.-)
5. Molekularna sistematika (doktorske studije) (2012.-)
6. Populaciona i evoluciona biologija odabrane grupe (doktorske studije) (2012.-)
7. Specijalni kurs faunistike (doktorske studije) (2012.-)
8. Specijalni kurs morfologije, sistematike i filogenije (doktorske studije) (2012.-)

OSTALE NASTAVNE AKTIVNOSTI

RECENZIJA UDŽBENIKA KATEGORIJE M90:

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

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

RECENZIJA OSTALIH PUBLIKACIJA KATEGORIJE M90:

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

NAUČNO-ISTRAŽIVAČKI RAD

OSNOVNE NAUČNE AKTIVNOSTI

NACIONALNE MONOGRAFIJE

M41 – ISTAKNUTA MONOGRAFIJA NACIONALNOG ZNAČAJA

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).
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).

M44 – POGLAVLJE U ISTAKNUTOJ MONOGRAFIJI NACIONALNOG ZNAČAJA

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. **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.
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.
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.
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.
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.
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.
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.
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.
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.
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.

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.
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.
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.
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.
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.

NAUČNI RADOVI

RADOVI OBJAVLJENI U ČASOPISIMA MEĐUNARODNOG ZNAČAJA:

M21A – RAD U VRHUNSKOM MEĐUNARODNOM ČASOPISU

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.
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.
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.
4. Golubović, A., Anđelković, M., Arsovski, D., Bonnet, X. & **Tomović, Lj.** (2017). Locomotor performances reflect habitat constraints in an armoured species. Behavioral Ecology and Sociobiology **71**: 93.

M21 – RAD U VRHUNSKOM MEĐUNARODNOM ČASOPISU

5. 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.
6. **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.
7. 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. 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.
9. Golubović, A., **Tomović Lj.** & Ivanović A. (2015). Geometry of self righting – case of Hermann's tortoises. Zoologischer Anzeiger **254**: 99-105.
10. 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.
11. **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.
12. 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.
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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.
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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.

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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.
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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.
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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.

ZBORNICI SKUPOVA NACIONALNOG ZNAČAJA:

M64 – SAOPŠTENJE SA SKUPA NACIONALNOG ZNAČAJA ŠTAMPANO U IZVODU

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.
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.
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.
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.

ODBRANJENA DOKTORSKA DISERTACIJA (M71)

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

ODBRANJENA MAGISTARSKA TEZA (M72)

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

OSTALE NAUČNE AKTIVNOSTI

RUKOVOĐENJE PROJEKTIMA BILATERALNE SARADNJE:

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.

UČEŠĆE NA MEĐUNARODNOM PROJEKTU:

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.

RUKOVOĐENJE NACIONALNIM PROJEKTOM:

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.

UČEŠĆE U NACIONALNOM PROJEKTU:

1. Projekat: "Populaciono-biološki aspekti procesa specijacije". Rukovodilac: prof. dr Nikola Tucić. Ministarstvo za nauku Republike Srbije, 1999.-2000.
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.
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.
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.
5. Projekat: "Evolucija u heterogenim sredinama". Rukovodilac: dr Alekscj Tarasjev. Ministarstvo nauke i zaštite životne sredine, 2006.-2010.
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.
7. Projekat: "Diverzitet vodozemaca i gmizavaca Balkana: evolucioni aspekti i konzervacija". Rukovodilac: dr Miloš Kalezić. Ministarstvo prosvete i nauke, 2011.-

RECENZIJA PUBLIKACIJE KATEGORIJE M11/M12/M41:
Recenzent istaknute nacionalne monografije «Fauna repatih vodozemaca Srbije» autori: dr Georg Džukić, dr Tanja Vukov & dr Miloš Kalezić.

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

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

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

Član komisije za izbor u naučno zvanje:

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

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
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.

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.

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.

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

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:
Broj citata (bez autocitata) u časopisima sa SCI liste: 208

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2. 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.

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3. 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.

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4. 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.

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Na osnovu člana 51, 52 i 53 Zakona o naučnoistraživačkoj djelatnosti ("Službeni list Crne Gore", br. 080/10 40/11 i 057/14 od 26.12.2014) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 03.07. 2018.godine, donio je

O D L U K U
O IZBORU U ZVANJE

Dr MILICA MANDIĆ bira se u naučno zvanje viši naučni saradnik za **oblast Ihtioplankton i marikultura u Institutu za biologiju mora**, na period od 5 godina.

SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK

Prof.dr Danilo Nikolić, rektor

Dr Milica Mandić – Biografija

Rođena sam u Kotoru, 31.08.1980. godine, gdje sam završila osnovnu i srednju školu (Gimnaziju) 1999. godine. Prirodno-matematički fakultet u Podgorici –odsjek Biologija upisala sam školske 1999/00 godine, a diplomirala 2005. godine sa prosječnom ocjenom 8.45. pri čemu sam stekla zvanje diplomiranog biologa.

Doktorske studije - Studijski program: Ekologija, biogeografija i zaštita biodiverziteta upisala sam u februaru 2007. godine na Biološkom fakultetu Univerziteta u Beogradu i završila ih sa prosječnom ocjenom 9.9.

Doktorsku disertaciju pod nazivom: »Sezonski aspekti diverziteta ihtioplanktona u Bokokotoskom zalivu« odbranila sam 29. novembra 2011. godine na Biološkom Fakultetu Univerziteta u Beogradu, pri čemu sam stekla zvanje doktora bioloških nauka. Diploma doktora bioloških nauka nostrifikovana je od strane Ministarstva prosvjete i sporta Crne Gore dana 15.02.2015. godine.

Tokom 2009. i 2010. godine pohađala sam kurs engleskog jezika *Oxford language Educational Center*- nivo *Upper intermediate 2*, uspješno ga završila, pa tečno govorim i pišem engleski jezik. 2009. godine sam imenovana za naučno odgovornu osobu u Institutu za biologiju mora za primjenu CITES konvencije u Crnoj Gori (za marinske vrste); 2012 godine sam imenovana za naučno odgovornu osobu u Crnoj Gori u Komitetu za akvakulturu Sredozemnog mora (GFCM-CAQ); 2017. godine sam imenovana za člana radne grupe za sprovođenje Jadransko-Josnke strategije za oblast Kvalitet životne sredine. Član sam radne grupe za pregovore Crne Gore sa Evropskom Unijom za poglavlje 13 – Ribarstvo, kao i Član radne grupe za izradu Zakona o morskom ribarstvu i marikulturi.

Od 01.03.2006. godine sam zaposlena u Institutu za biologiju mora, prvo kao saradnik u istraživanju, a nakon izbora u zvanje naučnog saradnika (Odluka br.08-1712 od 01.10.2012 g.), imenovana sam za rukovodioca Laboratorije za razvojna istraživanja i marikulturu (Odluka Instituta za biologiju mora broj 49/12 od 13.02.2012.godine). 03.07.2018. godine stičem zvanje višeg naučnog saradnika za oblast ihtioplankton i marikultura (Odluka Senata UCG br 03-2272 od 03.07.2018.).

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Aktivni i završeni nacionalni i međunarodni projekti (učešće u zadnjih 5 godina):

- Monitoring i biomonitoring kvaliteta voda na uzgajalištima školjki i riba u Bokokotorskom zalivu – program finansiran od strane Ministarstva poljoprivrede i ruralnog razvoja Crne Gore (2012 – do danas) – rukovodilac programa;
- FAO AdriaMed (2004-do danas). Scientific Cooperation to Support Responsabile fisheries in the Adriatic Sea. – saradnik na projektu;
- FAO InDAM (2012-do danas) - Indicators for Sustainable Development of Aquaculture and Guidelines for their use in the Mediterraneanss - saradnik na projektu;
- Zaštita uzgajališta mušulja (*Mytilus galloprovincialis*, L.) i kamenica (*Ostrea edulis*) od predatora – orade (*Sparus aurata*) – Projekat finansiran od strane Ministarstva poljoprivrede i ruralnog razvoja Crne Gore (2012-2014) – rukovodilac projekta;
- Bioraznovrsnost i struktura priobalnih zajednica riba i drugih morskih životinja na istočnoj strani Jadrana: poređenje između hrvatskog i crnogorskog priobalja. Bilateranlni projekat između Crne Gore i Hrvatske (2015-2016) – saradnik na projektu;
- IPA ADRIATIC STRATEGIC – "Derelict fishing gear management system in the Adriatic Sea" - DeFishGear - Upravljanje napuštenim ribarskim alatima u Jadranskoj regiji (2013-2016) – rukovodilac;
- BALMAS (2013-2016) - Ballast water management System in the Adriatic Sea – saradnik na projektu;
- IPA Adriatic 4 PILLARS (2016)- "For Promoting an Innovative muLti-Level goveRnance System of EUSAIR" – rukovodilac projekta
- IPA Adriatic ADRIATIC + (2016)- „Sharing Marine and Coastal cross management experiences in the Adriatic basin" – saradnik na projektu
- Bilateralni projekat između Crne Gore i Srbije (2016-2018)– "Potencijalna primjena ljuštura dagnji i kamenica kao biosorbenata za uklanjanje teških metala" – rukovodilac projekta sa crnogorske strane.
- BIO-ICT (2014-2017) – Centre of Excellence of Montenegro. – saradnik na projektu.
- IPA »Experimental farming of great Mediterranean scallop (*Pecten jacobaeus*) in the area of Boka Kotorska Bay« (2016-2017) – rukovodilac
- IPA Interreg "WELCOME" projekat - „WatEr LandsCapes sustainability through reuse of Marine littEr" – rukovodilac
- IPA Sustainable and innovative Agro food and fisheries value chain for SME's cross border market" - Food4Health - rukovodilac

Organizacija simpozijuma i radionica:

- AdriaMed Workshop on Daily Egg Production Method for the appraisal of small pelagic fisheries resources in the Adriatic Sea. Kotor, Montenegro 27-29.09.2010 - Organizator obuke i predavač.

Učešće na kursevima:

- Training Course for Operators in Fish Markets and Fishing – Adriatic Fishing Observatory – AFO (Interreg III A). 10th-12th October 2006, Duress (Albania) and 25th-27th October 2006, Ancona (Italy).
- Advanced training in Laboratoria di Biologia Marina- Fano,University of Bologna, Italia In the frame of the project "OASIS" which was realized between Italian region Abbruzzo, Montenegro and Albania, 22.11-20.12.2006
- Training Course on the use of Global Information Systems (GIS) in Fisheries and Aquaculture – FAO Regional Project "Scientific Cooperation to Support Responsible Fisheries in the Adriatic Sea". 3-13 July 2007, Split, Croatia.
- „Progremme promotion of an inter-Adriatic space for producing quality fruit and vegetables and livestock". Province Forli – Cesena, Italy. 19- 30 November 2007. Adria Food Quality.
- Training Course on the Daily Eggs Production Method (DEPM) for the Appraisal of Small Pelagic Fisheries Resources– FAO Regional Project "Scientific Cooperation to Support Responsible Fisheries in the Adriatic Sea". 11-15 September 2007, Kotor, Montenegro.
- AdriaMed training course on Virtual Population Analysis (VPA) methods in Fish Stock Assessment. Rome, Italy, 22-26 November 2010
- PESCAMED Training course on „A shared policy for sustainable fishing in the Mediterranean sea". Mediterranean agronomic Institute of Bari (Italy). 29 November – 11 December 2010.
- Workshop „Bivalve safety management". Saranda, Albania, 26-28 June 2012. FAO and EUROFISH.

Recenzentske aktivnosti

- Recenzent u nekoliko naučnih časopisa: Aquaculture and Forestry; Blue Ocean Institute; Journal of Marine Biological Association of United Kingdom, Acta Adriatica, Cahiers de Biologie marine, Tourkish Journal of Fisheries and Aquatic Sciences.

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2001; SCI, SCIE, SSCI, A&HCI; N.Z.Blagojević, R.M.Zejnilović and M.Krgović; "Examination of acid lye reaction of red mud from the Alumina factory in Podgorica"; Res.J.Chem.Environ.; 5(4); 7-12; 0972-0626
2000; SCI, SCIE, SSCI, A&HCI; J.Pješčić, S.Mentus, V.Komnenić, N.Blagojević; "Electrochemical and corrosion behaviour of commercially and analytically pure titanium in alkaline solutions"; J.Serb.Chem.Soc.; 3; ; 0352-5139
1999; SCI, SCIE, SSCI, A&HCI; N.Z.Blagojević, R.M.Zejnilović, A.R.Despić and Ž.Blečić; "Determination of the zinc and cadmium contents in low-alloyed"; J.Serb.Chem.Soc.; 64(11); 707-720; 0352-5139
1996; SCI, SCIE, SSCI, A&HCI; R.M.Zejnilović, N.Blagojević, V.D.Jović, A.R.Despić; "Direct stripping voltammetric method for the determination of small concentrations of one component in binary alloys"; Analytica Chimica Acta; 327; 107; 0003-2670

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Date,

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05.05.2010

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

ODLUKU
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**.

REKTOR

Prof.dr Predrag Miranović

CURRICULUM VITAE

Of Full Professor Dr Drago S. Marić

DATE AND PLACE OF BIRTH
October 10th, 1954 in Bosansko Grahovo (Bosna and Hercegovina).
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NATIONALITY
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EDUCATION

1. High School (Gymnasium) in Bosansko Grahovo.
2. Faculty of Sciences (Biology), Sarajevo, 1973.
3. Postgraduate studies and Master Degree, Faculty of Sciences, Novi Sad, 1994.
4. Doctor Scienciae, Faculty of Sciences Kragujevac, 1998.

OFFICIAL INTERNATIONAL SCIENTIFIC MISSIONS

USA

- Auburn University, Faculty of Agriculture -1986

France

- Universite des Sciences et Techniques du Languedoc, Montpellier –2003.
- Universite de Provanse, Laboratorie de hydrobiologie. Marseille-2001, 2002, 2003.

Germany

- Bundesforschungsanstalt fur fischerei (BFA), Hamburg, 1982, 1983, 1985.
- University of Heidelberg, Department of Zoology, 2002

Greece

- University of Thessaloniki, Greece – 2000
- University of Ioannina, Department Messolonghi, 2008

KNOWLEDGE OF LANGUAGES
1. English (speak, read,)
2. Russian (read, speak and write slightly)

EMPLOYEMENT RECORD
1978.- assistant at the Institute of Medical and Biological Research (IBMI), Podgorica, Montenegro
1984.- senior assistant at IBMI, Podgorica, Montenegro
1993.- senior assistant at the University of Montenegro, Podgorica, (Faculty of Sciences).
1998.- Assistant Professor at the University of Montenegro, Podgorica, (Faculty of Sciences).
1998 - 2003. - Head, Department of Biology, Faculty of Sciences, Podgorica, Montenegro
2004. Associated Professor at the University of Montenegro, Podgorica, (Faculty of Sciences).
2010. Full Professor at the University of Montenegro, Podgorica, (Faculty of Sciences).

ENGAGEMENTS IN THE SCIENTIFIC PROJECTS
In the last 10 years, engaged as follows.

1. as assistant - 2 projects (2 international - cooperation with Germany).

2. as assistant - 1 projects (international - cooperation with France).
3. as assistant - 2 projects (international - cooperation with Greece)

The main topics of projects: fish biology and ecology, Aquaculture, living resources and its protection.

MEMBERSHIPS IN THE SCIENTIFIC ASSOCIATIONS

International:
1. European Ichthyological Union (EIU)
2.

OTHER ACTIVITIES
Committee for Flora and Fauna (Montenegrin Academy of Sciences)
Committee for Encyclopedia Montenegrina (Montenegrin Academy of Sciences)
National Committee for Biological safety, Federal Government

PUBLICATIONS -major publications

Doctoral thesis

Adaptacija introdukovanog srebrnog karaša (*Carassius auratus gibelio* Bloch,1783.) u Skadarskom jezeru **[Adaptation of Introduced German Carp (*Carassius auratus gibelio* Bloch,1783) in Skadar Lake].** Doktorska disertacija, pp 268. Kragujevac, 1998.

Papers

MARIĆ, D. 1989.The species revision of genus *Rutilus* Rafinesque, 1820 (Pisces) from western part of Balkan peninsula. Glasnik Republičkog zavoda za zaštitu prirode, 21: 55 - 79.

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MARIĆ, D., KRIVOKAPIĆ, M. 1997. Stanje faune riba u slivu Skadarskog jezera **[Condition of Fish Fauna in Skadar Lake Watershed]**. CANU, Zbornik radova - Prirodne vrijednosti i zaštita Skadarskog jezera, 44: 215-223.

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Gilles, A., Costedoat, C., Barascud, B., Voisin, A., Banarescu, P., Bianco, P. G., Economidis, P. S., **Marić, D.** & Chappaz, R. 2010. Speciation pattern of *Telestes souffia* complex (Teleostei, Cyprinidae) in Europe using morphological and molecular markers. *Zoologica Scripta, 39 (3):* 225–242.

Marić, S. D., Rakočević, V. J. & **Marić, S. D.** 2010. Diversity and distriburion of species from the genus *Barbus* in waters of Montenegro. *Natura Montenegrina, 9 (2):* 169-182.

Zupančić, P., **Marić, D.** Naseka, M. A & Bogutskaya, G. N. 2010. *Squalius platyceps*, a new species of fish (Actinopterygii: Cyprinidae) from the Skadar Lake basin. *Zoosystematica Rossica, 19 (1):* 154–167.

Marić, D. & Milošević, D. 2010. First records and description of the Goldside loach *Sabanijevia balcanica* (Cobitidae) in Montenegro. *Periodicum Biologorum 112 (2):* 149–152.

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Milošević D, Winkler KA, **Marić D,** Weiss S. 2011. Genotypic (genetic) and phenotypic evaluation of *Rutilus* sp. from Skadar, Ohrid and Prespa Lakes supports revision of endemic as well as taxonomic status of several taxa. **Journal of Fish Biology 79**: 1094-1110.

Milošević, D & **Marić, D.** 2012. Length-Weigth Relationship and Conditions factor of *Cyprinus carpio* from Lake Skadar (Montenegro) during spawning period. *Agriculture & Forestry*, vol 52 (06) (1-4): 53-60.

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Books and Monographs

Marić, D. 2009. Bibliography on fishery-ichthyological investigations in Montenegro (150 years of research) JU "Prirodnjački muzej Crne Gore", posebno izdanje No 5 140 p.

Marić, D. and Milošević, D. (2011). Katalog slatkovodnih riba (Osteichthyes) Crne Gore Crnogorska akademija nauka i umjetnosti. Katalozi 5, Knjiga 4. Podgorica. pp 114.

Marić, D., Rakočević, J. 2010. Biodiversity. Montenegro in the 21st century - the era of competitiveness: Environment and Sustainable Development ed. Mihailo Burić. Montenegrin Academy of Science and Art, book 73/2 pp 113-150.

University textbooks

Marić, D., Rakočević, J. Hydrobiology. University of Montenegro. 352 p.

Participated in scientific research projects (=fishery-ichthyology)

1. "Limnološka istraživanja akumulacionog jezera Piva" **[„Limnology studi artifical Lake Piva"]**(1976-1980).
2. "Proučavanje mogunosti razvoja ribarstva u akumulacijama Krupac i Slano i njihovom užem slivnom području" **["The study possibilities of development of fisheries in reservoirs Slano and Krupac and their narrow catchment area"]**(1978-1980).
3. "Izučavanje mogunosti razvoja i unapredjenja ribolova na Skadarskom jezeru" **["Studying the possibilities of development and improvement of fishing on Lake Skadar]"** (1977-1980).
4. Hematološka i parazitološka istraživanja riba Skadarskog jezera i Bokokotorskog zaliva kao značajnih parametara za zaštitu životne sredine i "akvakulturu" **["Hematological and parasitological studies of fish Skadar Lake and the Bay of Kotor as important parameters for environmental protection and aquaculture "] International Project,** Medjunarodni projekat, Univerzitet u Hamburgu. (1979-1983).
5. "Hidrobiološke karakteristike rijeke Morače i njenog sliva" **["Hydrobiological characteristic of the drainage basin of Morača"]** (1980-1983).
6. "Hidrobiološka, antropološka i genetička istraživanja u basenu Skadarskog jezera i problemi njegove zaštite" ["**Hydrobiological, anthropological and genetic studies in the basin of Lake Skadar and the problems of its protection"]** (1982-1984).
7. "Biološka proučavanja rijeka Tare s posebnim osvrtom na mogunosti prirodnog i industrijskog zagadjenja" ["**Biological studies of Tara, with special emphasis on the possibilities of natural and industrial pollution "]** (1981-1985).
8. "Biološka i ekonomska valorizacija hidroakumulacija i njihovog slivnog područja u Crnoj Gori" **["Biological and economic evaluation of hydro reservoirs and their catchment areas in Montenegro"]** (1981-1985).
9. "Iskorišćavanje prirodnih potencijala Skadarskog jezera kao izvora hrane i vode za piće i problemi zagadjenja i zaštite" **["The exploitation of natural resources of Lake Skadar as a source of food and drinking water and pollution problems and protect"]** (1981-1985).
10. "Biološka i hemijska proučavanja voda sliva Ćehotine s posebnim osvrtom na akumulaciju "Otilovići" u uslovima regionalne industrijalizacije" **["Biological and chemical studies of water catchment Ćehotine with special emphasis on the accumulation of" Otilovici "in terms of regional industrialization"]**(1983-1987).
11. "Mogunosti razvoja akvakulture na Skadarskom jezeru" **[„Possibilities of aquaculture development in the Skadar Lake "]**(1984-1987). (Međunarodni projekat, USA-Univerzitet u Auburnu). **International Project, University of Auburn).**
12. "Hidrobiološka proučavanja životnih zajednica i hidrohemijska istraživanja rijeke Tare i njenih pritoka" **["Hydrobiological study of living communities and hydrochemical studies of the Tara River and its tributaries"]** (1987-1990).
13. "Integralni sistem za kaveznu proizvodnju salmonidnih riba" **["Integrated cage system for breeding salmonid fish"]** (1990-1994).
14. "Biološka proučavanja u slivu rijeke Morače" **["Biological studies in the basin of the river Moraca"]** (1990-1994).

15. "Istraživanja prirodnih karakteristika bazena Skadarskog jezera, u cilju njegove zaštite unapredjenja i racionalnog iskorišavanja" **["Studies on the natural characteristics of the Skadar Lake basin, in order to improvement its protection and rational utilization"]** (1991-1994).
16. Praćenje endemičnih, rijetkih i ugroženih vrsta riba u slivu Skadarskog jezere u cilju zaštite biodiverziteta i genofondova Nacionalnog parka **["Monitoring the endemic, rare and endangered fish species in the basin of Lake Skadar to protect biodiversity and gene pool of the National Park"]** (1996-1998).
17. Integrated Monitoring of Skadar Lake/Lake Shkoder (2000-2003), **International Project,** 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) **International Project,** 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) **International Project.**
20. "Comparative study of fish parasites biodiversity from Kavala (Agean sea), Messolonghi bay (Ionnian sea) and coast of Montenegro (Adriatic Sea). (2006-2008) **International Project,** 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"**["Catalogue of freshwater fishes of Montenegro']** (2007-2008).
22. " Istraživanja bioindikatora kontinentalnog akvatorijuma Crne Gore" **["Studies on bio-indicators of continental aquatorium of Montenegro"]** (2007-2010).
23. Fauna Crne Gore: 'Katalog slatkovodnih riba Crne Gore **[Fauna of Montenegro- "Catalogue of freshwater fishes of Montenegro']** (2008-2009).
24. Crna Gora u XXI stoljeću-u eri kopetitivnosti: Projekat- Životna sredina i održivi razvoj (Rukovodilac M. Burić), Biodiverzitet **["Montenegro in the 21st century - the era of competitiveness: Environment and Sustainable Development, Biodiversity"].** Montenegrin Academy of Science and Art (2009-2010).
25. "Fauna Crne Gore- Fauna slatkovodnih riba Crne Gore" **["Fauna of Montenegro-Freshwater fish fauna of Montenegro"]** (2010-2011).
26. Monitoring Biodiverziteta u Crnoj Gori za 2012 . Prirodnjački muzej Crne Gore – Agencija za zaštitu životne sredine (2013) **["Monitoring biodiversity of Montenegro for 2012."].**

Scientific and technical expertise (fishery-ichthyology)

1. „Stanje ribljeg fonda akumulacije Krupac na koti 12" **["State of fish stocks Krupac reservoir at elevation 612"]** (1979).
2. "Mogućnost razvoja ribarstva u vodama Nikšića [**"Possibility of Development of Fisheries in water of Nikšić"**] (HE "Peruica" - Nikšić, 1981).
3. "Ribarska osnova za vode NP "Durmitor" [**"Possibility of Development of Fisheries (Fisheries assessment) in waters of the NP"Durmitor"]** Žabljak (1982).
4. "Hemijski i biološki kvalitet voda rijeke ehotine i nekih njenih pritoka" TE "Pljevlja" [**"Chemical and biological quality of rivers Ćehotina and some of its tributaries"Pljevlja"]** (1981-1982).
5. "Ribarska osnova sa analizom hemijskog i biološkog kvaliteta voda rijeke ehotine i njenih pritoka" [**"Fisheries assessment with the analysis of chemical and biological water quality of the river and its tributaries Ćehotine"]** (SO Pljevlja, 1983).
6. "Program studijskih istraživanja i idejnih rješenja HE "Tara" (profil Tepca) - polazna studija, tema: "Neke biološke karakteristike životnih zajednica" **["The program of study and research of general solutions HE" Tara "(profile Tepca) - initial studies, the topic:" Some biological characteristics of living communities "]** (1985).

7. "Studija životnih zajednica i životnih uslova sliva rijeke Morače u svijetlu izgradnje novog izvora električne energije na rijeci Morači" **["The study of living communities and living conditions of the river Moraca in the light of building a new power source on the river Moraca"]** (1985).
8. "Kompleksno stanje vodotoka i obalnog područja nizvodno od brane HE "Piva" do akumulacije HE "Baina Bašta" **["A complex state of watercourses and coastal areas downstream of the dam, " Beers "the accumulation of HPP Bain Garden"]** (1978-1986).
9. "Program zaštite, unapredjenja i razvoja prirodnih bogatstava i dobara NP "Skadarsko jezero". Bazna studija-ihtiofauna **["Program protection, improvement and development of natural resources and potential of NP Skadar Lake. " Base Study-ichthyofauna']** (1987).

Manager and principal investigator= head and chief researcher

1. "Ribarska osnova Pivskog jezera sa pritokama" [" **Possibility of Development of Fisheries (Fisheries basis, fisheries assessment) of Piva Lake and its ributaries"]** (1995).
2. "Ribarska osnova sliva rijeke Tare i jezera NP "Durmitor" [" **Possibility of Development of Fisheries (Fisheries assessment) in River Tara Watershed and Lakes of NP "Durmitor"]** (1996).
3. "Mogućnost razvoja ribarstva u vodama Nikšića (jezera Krupac, Slano, Liverovići i rijeka zeta)" **[„Possibility of Development of Fisheries (Fisheries assessment) in water of Nikšić" (Lakes Krupac, Slano, Liverovići and river Zeta)"]** (2003).
4. "Formiranje salmonidnih reprocentara za proizvodnju mlađa autohtonih ribljih vrsta" **["Establishment of centers for the reproduction and production of fry of native species of salmonids"]** 2003-2005.
5. " Ribarska osnova eliva rijeke Morače" [".**Possibility of Development of Fisheries (Fisheries assessment) in River Morača Watershed**"] (2004).
6. "Ribarska osnova rijeke Lim i njenog slivnog područja" **["Possibility of Development of Fisheries (Fisheries assessment) in River Lim Watershed**"] (2006).
7. "Biološko-ekološka istraživanja endemičnih i ugroženih vrsta salmonida u vodama Crne Gore" **["Biological and ecological studies of endemic and endangered salmonids in the waters of Montenegro"]** (2005-2007).
8. "Ribarska osnova sliva rijeke Ćehotine" **["Possibility of Development of Fisheries (Fisheries assessment) in River Ćehotina Watershed**"} (2007).
9. "Ribarska osnova sliva Pivskog jezera" **["Possibility of Development of Fisheries (Fisheries assessment) in Piva Lake Watershed**"] (2008-2009).

. BIBLIOGRAFIJA:

Publikovani radovi

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32. Rakočević, J., Šuković, D., **Marić, D. 2017.** Bioaccumulation of trace elements in muscle tissue of six fish species from Skadar Lake (Montenegro). VII International Symposium of the Ecologists in Montenegro (ISEM7), September 04-07. 2017. Sutomore, Abstract Book, pp 165.

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 Nikšića" (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

01. "Ribarska osnova Pivskog jezera sa pritokama" (1995).
02. "Ribarska osnova sliva rijeke Tare i jezera NP "Durmitor" (1996).
03. "Ribarska osnova voda nikšikog regiona (jezera Krupac, Slano, Liverovići i rijeka Zeta) (2003).
04. Formiranje salmonidnih reprocentara za proizvodnju mlađa autohtonih ribljih vrsta (2003).
05. "Ribarska osnova sliva rijeke Morače (rijeka Morača, Cijevna i Zeta)" (2004).
06. "Ribarska osnova sliva rijeke Lim (sa Plavskim jezerom i pritokama)" (2006).
07. "Biološko-ekološka istraživanja endemičnih i ugroženih vrsta salmonida u vodama Crne Gore" (2005-2007).
08. "Ribarska osnova sliva rijeke Ćehotine" (2007).
09. "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,
- Stručni saradnik na izradi Crnogorskog riječnika, CANU,
- Izrada tehničko-tehnoloških projekata za uzgoj pastrmki, šaranskih i morskih vrsta riba,
- Predsjednik komisija za utvrđivanje ispunjenosti uslova ribnjaka za komercijalni rad,
- Radio na izradi više projektnih zadataka vezanih za iskorišavanje prirodnih resursa.
- Bio Predsjednik ili član komisija za ocjenu projekata za izdavanje koncesija,
- Predsjednik ili član komisija za ocjenu planova i porograma u ribarstvu,
- Izrada (član ekipe) 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.
- Ekspert – konsultant na Projektu: EAR Project in Montenegro 05mon02: Suport to the Fishery Sector (2007/08)
- Član stručnog tima za izradu prostornog plana crne Gore,
- Član Odbora za faunu i floru CANU 1998-)
- Član redakcije časopisa "Natura Montenegrina" (2001 -)
- Član naučnih i organizacionih odbora međunarodnih i domaćih simpozijuma i kongresa,
- Recenzent u više naučnih radova u domaćim i međunarodnim časopisima
- Član naučnog savjeta JU NP Crne Gore (2007 -)
- 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
- Rukovodioc ili član ekspertskih ekipa za utvrđivanje „nultog stanja vodenih ekosistema",
- Rukovodioc ili član ekspertskih ekipa za monitoring na vodenim ekosistemima,
- 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.
- Profesor, nastavnik, na osnovnim, specijaliostičkim i doktorskim stunijama na PMF, univerzitet Crne Gore,
- Profesor, nastavnik, na PF, Univerzitet Crne Gore (predmet Ribarstvo),
- Mentor, diplomciuma, postdiplomcima i doktorandima,
- Predsjednik ili član u komisijama za odbranu diplomskih, specijalističkih i doktorskih radova (teza),
- Recezent - udžbenika i knjiga,
- Recezent pri izboru zvavnja za nastavnike i stručna i naučna zvanja,
- Predsjednik ili član komisija za polaganje stručnih i drzavnih ispita (u nastavi i nauci),
- Intervjui i naučna mišljenja u sredstvima javog informisanja (radio, TV i štampani mediji)
- Zvanični sudski vještak iz oblasti biologije (2008 -)

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Датум, 19.12.2013 г.

УНИВЕРЗИТЕТ ЦРНЕ ГОРЕ
Природно-математички факултет
Број 2981
Подгорица, 25.12.2013 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

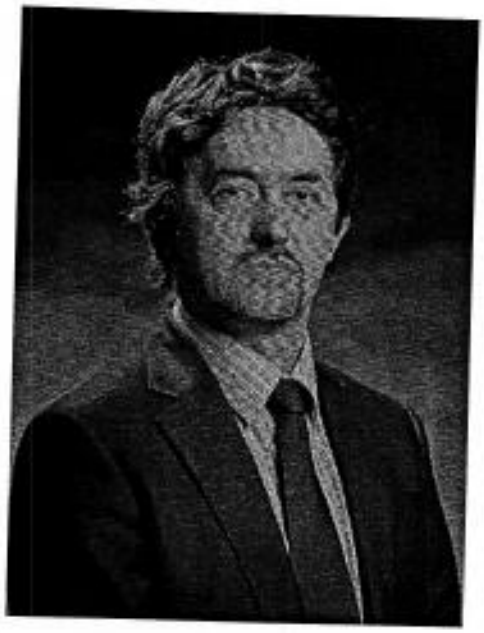
O D L U K U
O IZBORU U ZVANJE

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

CURRICULUM VITAE

EUROPEAN FORMAT



PERSONAL INFORMATION

Name, Surname	Vladimir, Pešić
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Place and Date of birth	Podgorica, 06.09.1973

WORK EXPERIENCE

/Dates (from – to)	06.06.1973	Born in Podgorica, Montenegro.
	1980-1988	Primary school in Podgorica
	1988-2002	Gymnasium "Slobodan Škerović" in Podgorica
	2003-2008	Undergraduate studies from general biology at the Department of Biology, University of Montenegro
Add separate entries for each relevant post occupied, starting with the most recent.]	1998-2003	Work as Assistant at Department of Biology of the University of Montenegro in Podgorica
	2001	Master thesis at the Faculty of Biology of the University of Belgrade, Serbia
	2003	PhD thesis at the Faculty of Biology of the University of Belgrade, Serbia: "Taxonomical, ecological and zoogeographical study on water mites of the central part of Balkan Peninsula"
	2004-2008	Work as Assistant Professor at Department of Biology of the University of Montenegro at the academic courses: "Zoology of

		Invertebrates" and "Ecology of Animals" and master courses: "Conservation Biology", "Principles of Sustainble Development" and "Crenobiology and Ecology of Groundwater".
	2009 –2013	Work as Associate Professor at Department of Biology of the University of Montenegro
	2007 – 2013	Head of Department of Biology of the University of Montenegro
	Since 2013 – Cont.	Work as Full Professor at Department of Biology of the University of Montenegro
	2014– 2017	President of Scientific Board of University of Montenegro
Name and address of employer	University of Montenegro	
Type of business or sector	Public	
Occupation or position held	Full Professor	

EDUCATION AND TRAINING

Dates (from – to) Add separate entries for each relevant course you have completed, starting with the most recent.	2003	PhD thesis at the Faculty of Biology of the University of Belgrade, Serbia
	2001	Master thesis at the Faculty of Biology of the University of Belgrade, Serbia
	2003-2008	Undergraduate studies from general biology at the Department of Biology, University of Montenegro
Name and type of organisation providing education and training	University of Belgrade	
Principal subjects occupational skills covered	Ecology and Biodiversity Research	
Title of qualification awarded	PhD	
/ Level in National classification	Level VIII	

RESEARCH ACTIVITIES

Research sectors	There are four avenues of research in which I am mainly interested and which are partly interlinked: 1 Biodiversity, ecology, taxonomy and zoogeography of aquatic invertebrates, with special regard to water mites (Hydrachnidia) and freshwater gastropods; 2 Ecological research in springs ecosystem; 3 Ecology of Intermittent Rivers and Ephemeral Streams. 4 Environmenntal Monitoring

Recent Scientific Activities.

I described more than 300 species new for science from all parts of the world.

List of articles available at. https://www.researchgate.net/profile/Vladimir_Pesic

Books and Articles

Books

Pešić, V., Karaman G., Kostianoy, A. (2018) (Eds.) Lake Skadar/Shkodra Environment. The Handbook of Environmental Chemistry, vol 80. **SPRINGER, Cham** 508 pp. ISBN 978-3-319-99249-5. DOI 10.1007/978-3-319-99250-1

Gerecke, R., Glodhill, T., **Pešić, V.**, Smit, H. (2016) Süßwasserfauna von Mitteleuropa, Bd. 7/2-3 Chelicerata. 429 pp. **SPRINGER Berlin Heidelberg.** ISBN:978-3-8274-1893-7

Pešić, V. et al., (Eds) Rivers of Montenegro. The Handbook of Environmental Chemistry **SPRINGER, Cham.** In prep.

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)

Pešić, V., Smit, H., Gerecke, R. & Di Sabatino, A. (2010). The water mites (Acari: Hydrachnidia) of the Balkan peninsula, a revised survey with new records and descriptions of five new taxa. **Monograph Zootaxa,** 2586, 1–100. ISBN 978-1-86977-569-8. Publisher: Magnolia Press (Auckland, New Zealand).

Chapters in monographs

Pešić V., Karaman G.S., Kostianoy A.G. (2018) Introduction. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp.1-10

Barović G., Spalević V., **Pešić V.**, Vujačić D. (2018) The Physical and Geographical Characteristics of the Lake Skadar Basin. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 11-23

Grabowski M., Jabłońska A., Wysocka A., **Pešić V.** (2018) The Obscure History of the Lake Skadar and Its Biota: A Perspective for Future Research. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 47-61

Pešić V. et al. (2018) The Diversity of the Zoobenthos Communities of the Lake Skadar/Shkodra Basin. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 255-293

Pešić V., Glöer P. (2018) The Diversity and Conservation Status of the Molluscs of Lake Skadar/Shkodra. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 295-310

Zawal A., Pešić V. (2018) The Diversity of Water Mite Assemblages (Acari: Parasitengona: Hydrachnidia) of Lake Skadar/Shkodra and Its Catchment Area. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 311-323

Pešić V., Karaman G.S., Sket B. (2018) The Diversity and Endemism of Aquatic Subterranean Fauna of the Lake Skadar/Shkodra Basin. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 339-361

Vujović A., Krivokapić Z., Stefanović M., **Pešić V.**, Jovanović J. (2018) Integrated Lake Basin Management for Lake Skadar/Shkodra. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 447-457

Pešić V., Karaman G.S., Kostianoy A.G., Vukašinović-Pešić V. (2018) Conclusions: Recent Advances and the Future Prospects of the Lake Skadar/Shkodra Environment. In: Pešić V., Karaman G., Kostianoy A. (eds) The Skadar/Shkodra Lake Environment. The Handbook of Environmental Chemistry, vol 80. Springer, Cham, pp 481-500

Zhang, Z-Q., Fan, Q-H., **Pešić, V.**, Smit, H., Bochkov, A., V. Khaustov, A., A Baker., A Wohltmann., A Wen., T Amrine, J., W. Beron, P., Lin, J., Gabrys, G & Husband, R (2011) *In*: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. *Zootaxa Monograph*, 3148, pp. 129-138, Publisher: Magnolia Press, Auckland.

Pešić, V. (2008) Checklist of diving beetles (Coleoptera: Dytiscidae, Noteridae) of Montenegro. In: Makarov, S.E. & Dimitrijević, R.N. (Eds.) Advances in Arachnology and

Developmental Biology. Papers dedicated to Prof. Dr. Božidar Ćurčić. Inst. Zool., Belgrade; BAS, Sofia; Fac. Life Sci., Vienna; SASA, Belgrade & UNESCO MAB Serbia. Vienna – Belgrade – Sofia, Monographs, 12, 509-515.

Glöer, P. & **Pešić, V.** (2008) The freshwater gastropods of the Skadar Lake with the description of *Valvata montenegrina* n. sp. (Mollusca, Gastropoda, Valvatidae). In: Pavićević, D. & Perreau, M. (Eds.) Advances in the studies of the subterranean and epigean fauna of the Balkan Peninsula. Volume dedicated to the memory of Guido Nonvellier. Monograph 22, Institute for Nature Conservation of Serbia, 325-332.

Pešić, V. & Schmidt-Rhaesa, A. (2008) First data on Serbian hairworms (Nematomorpha). In: Pavićević, D. & Perreau, M. (Eds.) Advances in the studies of the subterranean and epigean fauna of the Balkan Peninsula. Volume dedicated to the memory of Guido Nonvellier. Monograph 22, Institute for Nature Conservation of Serbia, 321-324.

Pešić, V. (2004). Water mites (Acari: Hydrachnidia) of the Biogradska Gora National Park (Serbia and Crna Gora). In: Pešić, V. (Ed.). 2004. The Biodiversity of the Biogradska Gora National Park. Monographies I, Department of Biology, University of Montenegro & Centre for Biodiversity of Montenegro, 65-86.

Pešić, V. (2004). New records of Halacarid mites (Acari, Halacaroidea) from Crna Gora. In: Pešić, V. (Ed.). 2004. The Biodiversity of the Biogradska Gora National Park. Monographs I, Department of Biology, University of Montenegro & Centre for Biodiversity of Montenegro, 96-103.

Papers published in journals from SCI/SCIE with IF > 0

2019

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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) and University of Montenegro (Montenegro). Project Leader.

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

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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.

2016-2018: The first study of ecology and biology of species the snail genus Montenegrina in Montenegro. Natural History Museum Vienna, Austria and University of Montenegro. Leader of Montenegrin team.

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Menthorship and Editorial work

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Pešić, V. & Hadžiablahović, S. (Eds) Proceedings of the Symposium, II International Symposium of Ecologists of Montenegro. Kotor, 20-25.09.2006, 500 pp. ISBN 86-908743-0-5.
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Pešić, V. & Hadžiablahović, S. (Eds) The Book of Abstracts and Programme, VII International Symposium of Ecologists of Montenegro. Sutomore, 4-7.10.2017, 81 ppr. ISBN: 978-86-908743-7-8

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.

New species named after me

Bithynia pesici Glöer & Yildirim, 2006 (Turkey)
Lanzaia pesici Glöer, Grego, Erőss & Fehér, 2015 (Montenegro)
Gordius pesici Schmidt-Rhaesa, 2010 (Montenegro)
Galumna vladopesici Ermilov & Corpuz- Raros, 2015 (Philippines)
Arrenurus pesici Smit, 2010 (Australia)
Empitrombium pesici Saboori & Hakimitabar, 2009 (Iran)
Trachyuropoda pesici Kontschan, 2011 (St. Lucia, Carribean Sea)
Hydraena pesici Skale & Jäch, 2011 (Iran)
Hydraena vladimiri Jäch & Diaz, 2016 (Greece)
Isoperla pesici Murányi, 2011 (Montenegro)
Atyaephyra vladoi Jablonska et al. 2018 (Montenegro)

Popular story

The New York Times
http://www.nytimes.com/2014/07/22/science/newly-found-mite-is-jenny-from-the-reef.html?_r=0

Discover Magazine
http://discovermagazine.com/2015/jan-feb/101-new-species
Science Daily
https://www.sciencedaily.com/releases/2013/03/130329125101.htm

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