

ANNALES

Anali za istrske in mediteranske študije
Annali di Studi istriani e mediterraneei
Annals for Istrian and Mediterranean Studies
Series Historia Naturalis, 29, 2019, 1





ANNALES

Anali za istrske in mediteranske študije
Annali di Studi istriani e mediterraneei
Annals for Istrian and Mediterranean Studies

Series Historia Naturalis, 29, 2019, 1

ISSN 1408-533X (Tiskana izd.)

UDK 5

Letnik 29, leto 2019, številka 1

ISSN 2591-1783 (Spletna izd.)

**UREDNIŠKI ODBOR/
COMITATO DI REDAZIONE/
BOARD OF EDITORS:**

Nicola Bettoso (IT), Christian Capapé (FR), Darko Darovec, Dušan Devetak, Jakov Dulčić (HR), Serena Fonda Umani (IT), Andrej Gogala, Daniel Golani (IL), Danijel Ivajnskič, Mitja Kaligarič, Marcelo Kovačič (HR), Andrej Kranjc, Lovrenc Lipej, Vesna Mačić (ME), Alenka Malej, Patricija Mozetič, Martina Orlando-Bonaca, Michael Stachowitsch (AT), Tom Turk, Al Vrezec

**Glavni urednik/Redattore capo/
Editor in chief:**

Darko Darovec

**Odgovorni urednik naravoslovja/
Redattore responsabile per le scienze
naturali/Natural Science Editor:**

Lovrenc Lipej

Urednica/Redattrice/Editor:

Martina Orlando-Bonaca

Lektor/Supervisione/Language editor:

Polona Šergon (sl.), Petra Berlot Kužner (angl.)

Prevajalci/Traduttori/Translators:

Martina Orlando-Bonaca (sl./it.)

**Oblikovalec/Progetto grafico/
Graphic design:**

Dušan Podgornik, Lovrenc Lipej

Prelom/Composizione/Typesetting:

Grafis trade d.o.o.

Tisk/Stampa/Print:

Grafis trade d.o.o.

Izdajatelj/Editori/Published by:

Zgodovinsko društvo za južno Primorsko - Koper / Società storica del Litorale - Capodistria®
Inštitut IRRIS za raziskave, razvoj in strategije družbe, kulture in okolja / Institute IRRIS for Research, Development and Strategies of Society, Culture and Environment / Istituto IRRIS di ricerca, sviluppo e strategie della società, cultura e ambiente®

**Sedež uredništva/Sede della redazione/
Address of Editorial Board:**

Nacionalni inštitut za biologijo, Morska biološka postaja Piran / Istituto nazionale di biologia, Stazione di biologia marina di Pirano / National Institute of Biology, Marine Biology Station Piran
SI-6330 Piran / Pirano, Fornače/Fornace 41, tel.: +386 5 671 2900, fax 671 2901;
e-mail: annales@mbss.org, **internet:** www.zdjp.si

Redakcija te številke je bila zaključena 21. 6. 2019.

**Sofinancirajo/Supporto finanziario/
Financially supported by:**

Javna agencija za raziskovalno dejavnost Republike Slovenije (ARRS), Luka Koper in Mestna občina Koper

Annales - Series Historia Naturalis izhaja dvakrat letno.**Naklada/Tiratura/Circulation:**

300 izvodov/copie/copies

Revija Annales, Series Historia Naturalis je vključena v naslednje podatkovne baze / La rivista Annales, series Historia Naturalis è inserita nei seguenti data base / Articles appearing in this journal are abstracted and indexed in: BIOSIS-Zoological Record (UK); Aquatic Sciences and Fisheries Abstracts (ASFA); Elsevier B.V.: SCOPUS (NL).

Vsi članki so v barvni verziji prosto dostopni na spletni strani: <http://zdjp.si/p/annalesshn/>
All articles are freely available in color via website: <http://zdjp.si/en/p/annalesshn/>

VSEBINA / INDICE GENERALE / CONTENTS 2019(1)

SREDOZEMSKI MORSKI PSI
SQUALI MEDITERRANEI
*MEDITERRANEAN SHARKS***Hakan KABASAKAL**A Review of Shark Research in Turkish Waters 1
*Pregled raziskav o morskih psih v turških vodah***Hakan KABASAKAL**Finally Under Protection! Status of the Angel Shark, *Squatina squatina* (Linnaeus, 1758) in Turkish Seas, with Notes on a Recent Sighting and Incidental Captures 17
*Končno zavarovan! Status navadnega sklata, Squatina squatina (Linnaeus, 1758) v turških morjih s posebnim poudarkom na novejša opazovanja in naključne ulove***Sihem RAFRAFI-NOUIRA, Youssouph DIATTA, Almamy DIABY & Christian CAPAPÉ**Additional Records of Rare Sharks from Northern Tunisia (Central Mediterranean Sea) 25
*Dodatni zapisi o pojavljanju redkih morskih psov iz severne Tunizije (osrednje Sredozemsko morje)*RECENTNE SPREMEMBE V SREDOZEMSKI
BIODIVERZITETI
*CAMBIAMENTI RECENTI NELLA BIODIVERSITÀ
MEDITERRANEA*
*RECENT CHANGES IN MEDITERRANEAN
BIODIVERSITY***Thodoros E. KAMPOURIS, Costas****CONSTANTINOU & Ioannis E. BATJAKAS**Establishment of the Non-Indigenous Prawn *Penaeus pulchricaudatus* Stebbing, 1914 in the Marine Area of Cyprus 37
*Tujerodna kozica Penaeus pulchricaudatus Stebbing, 1914, ustaljena vrsta v vodah Cipra***Aytaç ÖZGÜL & Okan AKYOL**Occurrence of a Lessepsian Swimming Crab, *Portunus segnis* (Crustacea: Decapoda), in Southern Aegean Sea, Turkey 43
*Pojavljanje lesepske plavajoče rakovice, Portunus segnis (Crustacea: Decapoda), v južnem Egejskem morju, Turčija***Moez SHAIEK, Sihem RAFRAFI-NOUIRA & Christian CAPAPÉ**Occurrence and Unusual Abundance of Reticulated Leatherjack *Stephanolepis diaspros* (Osteichthyes: Monacanthidae) from the Lagoon of Bizerte (Northern Tunisia, Central Mediterranean Sea) 49
Pojavljanje in nenavadna številčnost afriškega kostoroga, Stephanolepis diaspros (Osteichthyes: Monacanthidae) iz lagune pri Bizerti (severna Tunizija, osrednje Sredozemsko morje)

IHTIOLOGIJA

ITTIOLOGIA

ICHTHYOLOGY

Domen TRKOV, Borut MAVRIČ,**Martina ORLANDO-BONACA & Lovrenc LIPEJ**Marine Cryptobenthic Fish Fauna of Slovenia (Northern Adriatic Sea) 59
*Morska kriptobentoška ribja favna Slovenije (severni Jadran)***Polona PENGAL, Eva HORVAT****& Mihael J. TOMAN**Spatial and Temporal Distribution of Anchovy (*Engraulis encrasicolus*) and Sardine (*Sardina pilchardus*) Eggs in Slovenian Territorial Waters (Northern Adriatic) 73
Prostorsko in časovno pojavljanje iker sardele in sardona v slovenskem teritorialnem morju

Sihem RAFRAFI-NOUIRA, Youssouph DIATTA & Christian CAPAPÉ

- Overview of Trophic Levels Recorded
in Teleost Species from Northern Tunisian
Waters (Central Mediterranean Sea) 85
Pregled trofičnih nivojev pri ribah
koštnicah vzdolž severnotunizijskih voda
(osrednje Sredozemsko morje)

FLORA
FLORA
FLORA

Nenad JASPRICA, Marija PANDŽA & Milenko MILOVIĆ

- Spontaneous Vegetation on Slag Heaps
in Southern Croatia 93
Spontana vegetacija na jalovinah v južni Hrvaški

Amelio PEZZETTA

- Le Lamiaceae della Flora Italiana: Distribuzione
Regionale e Considerazioni Fitogeografiche 103
Ustnatice (Lamiaceae) v italijanski flori:
regionalna razširjenost in fitogeografski pomisleki

FAUNA
FAUNA
FAUNA

Manja ROGELJA & Lovrenc LIPEJ

- Occurrence of Giant Tun, *Tonna galea* (Linnaeus,
1758) (Gastropoda: Tonnidae) in the Marine
Waters Off Slovenia (Northern Adriatic Sea) 121
Pojavljanje velikega sodca, Tonna galea
(Linnaeus, 1758) (Gastropoda: Tonnidae)
v morskih vodah Slovenije (severni Jadran)

Jure JUGOVIC & Živa MUHIČ

- Spatial Distribution of Three Species
of *Palaemon* Shrimp (Crustacea: Decapoda:
Caridea) in Badaševica River (SW Slovenia) 125
Prostorska razporeditev treh vrst kozic iz rodu
Palaemon (Crustacea: Decapoda: Caridea)
v Badaševici (JZ Slovenija)

MISCELLANEA

Khadija OUNIFI BEN AMOR, Mohamed Mourad BEN AMOR & Jamila BEN SOUSSI

- Abiotic Parameters in Tunis Southern Lagoon
After an Environmental Restoration
and Status of Macrobenthic Biocenosis
(Northern Tunisia, Central Mediterranean Sea) 135
Abiotiski parametri v tuniški južni laguni
po okoljski obnovi in status makrobentoških
biocenoz (severna Tunizija, osrednje
Sredozemsko morje)

DELO NAŠIH ZAVODOV IN DRUŠTEV
ATTIVITÀ DEI NOSTRI ISTITUTI E SOCIETÀ
ACTIVITIES BY OUR INSTITUTIONS
AND ASSOCIATIONS

Ana FORTIČ

- Protecting Adriatic Biodiversity in Kotor:
The Congress AdriBioPro 2019 143

IN MEMORIAM

- In Memoriam of Fabio Perco (1946–2019)
(**Lovrenc Lipej**) 147

- Navodila avtorjem 149
Istruzioni per gli autori 151
Instruction to Authors 153

- Kazalo k slikam na ovitku 156
Index to images on the cover 156



PROTECTING ADRIATIC BIODIVERSITY IN KOTOR: THE CONGRESS ADRIBIOPRO 2019

An international conference on the protection of the biodiversity of the Adriatic Sea was held from 7th to 10th April 2019 in the town of Kotor, a small coastal pearl listed as a UNESCO World Heritage Site. The conference was organized by the Institute of Marine Biology of the University of Montenegro. It was the final event of the project “Marine Biodiversity Conservation Center ‘Boka Aquarium’ – MonteAqua”, aiming to gather all relevant national and regional stakeholders, as well as to secure closer regional cooperation in the Adriatic region. During the four days filled with various activities, participants from 16 countries delivered 92 presentations covering 9 different topics: marine biodiversity conservation, conservation of coastal and marine areas, preventing marine pollution, rare and endangered species in the Adriatic Sea, invasive and alien marine species, roles of aquaria, sustainable use of marine resources, marine biotechnology, and freshwater biodiversity conservation.

The event opened with an exhibition by the talented underwater photographers Ivana Orlović Kranjc and Janez Kranjc titled “Hidden Beauty of the Sea”. The photographs portraying the rich and colourful underwater world of the Adriatic Sea were a lovely introduction into two days of interesting presentations and panel discussions.

In her introductory speech, Professor Đurdica Perović, Vice Rector of the University of Montenegro, stated that the results of the conference would be used in shaping future marine science priorities and policies in Montenegro and other Adriatic countries. With the main focus of the conference being biodiversity and its protection, a lot of emphasis was put on some current issues that pester the global oceans, such as unsustainable use of resources, marine pollution and non-indigenous species, as well as certain local problems characteristic of the Adriatic Sea. On a more operational note, the participants pointed out some deficits, such as the lack of experts in taxonomy, especially in the younger generation, as well as the growing need for cooperation among Adriatic countries.

Many excellent contributions were presented, abstracts of which can be viewed at the website of the ‘Aquarium Boka’ Marine Biodiversity Conservation Center (<http://www.aquariumboka.ucg.ac.me/wp-content/uploads/2019/04/AdriBioPro2019-BookAbstracts-20190408.pdf>). Among eminent researchers, Academician Professor Dr. Gordan



Fig. 1: Panel discussion with esteemed marine biologists on the topic: Why Adriatic biodiversity matters (photo: Institute of marine biology Kotor).



Fig. 2: The participants of the first AdriBioPro conference (photo: Institute of marine biology Kotor).

Karaman, an expert in amphipod taxonomy, presented his lifelong study of these crustaceans, which yielded descriptions of several new species from the Bay of Kotor. A special focus was put on the issue of mass mortality of the Mediterranean endemic bivalve *Pinna nobilis* caused by a protozoan parasite. An international group of researchers presented their experience and lessons learned from this occurrence and the measures taken so far to counteract it. The word of the conference had reached as far as Lebanon; in fact, the marine scientists from this country presented an interesting study of the Lebanese population of the endangered, yet still heavily exploited common guitarfish.

Many interesting speeches were given, priorities and policies were discussed, but like in many similar occasions, even more valuable connections and collaborations were probably made during the array

of social activities. The conference dinner held on the Wednesday evening was one of them. We had a unique opportunity to see a glimpse of rich Montenegrin cultural heritage through the performance of local folklore dancers, while enjoying Montenegrin food and wine. In my opinion, the conference was a success and more such occasions would be appreciated in the Adriatic region in the future.

Ana Fortič

Morska biološka postaja Piran,
Nacionalni inštitut za biologijo

MORSKA BIOLOŠKA POSTAJA PIRAN 50 1969 2019
MARINE BIOLOGY STATION PIRAN