

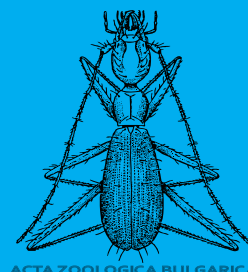
ACTA ZOOLOGICA BULGARICA

72 (1)



2020

March



**Institute of Biodiversity and Ecosystem
Research**

Bulgarian Academy of Sciences

ISSN 0324-0770 (print)
ISSN 2603-3798 (online)

Acta zoologica bulgarica

72 (1) • Sofia • March • 2020

An open access international journal of animal diversity, ecology and evolution published by the Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences

ISI Impact Factor (2018) = 0.278

Honorary Editor-in-Chief: *Vassil Golemansky*

Editor-in-Chief: *Boyko B. Georgiev*

Managing Editor: *Rositsa Kaneva*

Language Editor: *Vesela Evtimova*

Co-editors:

Apostolos Apostolou

Diana Zlatanova

Dragan Chobanov

Rumyana Metcheva

Paraskeva Mihailova

Vesela Evtimova

Vasil Popov

Advisory Board:

Gábor Csorba (Budapest)

Hristo Delchev (Sofia)

Victor Fet (Huntington)

Denis Geraads (Paris)

Georgi Georgiev (Sofia)

Peter Glöer (Hetlingen)

Victor V. Glupov (Novosibirsk)

Andy J. Green (Seville)

Borislav Guéorguiev (Sofia)

Boris Kryštufek (Ljubljana)

Jean Mariaux (Geneva)

Josef Matena (Česke Budejovice)

Georgi Markov (Sofia)

Yuri M. Marusik (Magadan)

Boris Nikolov (Sofia)

Anastasios Legakis (Athens)

Toshko Ljubomirov (Sofia)

Vlada Peneva (Sofia)

Aleksi Popov (Sofia)

Mitko Subchev (Sofia)

Milcho Todorov (Sofia)

Margarita Topashka (Sofia)

Yordan Uzunov (Sofia)

Eliza Uzunova (Sofia)

© Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, 2020

Copy editor: *R. Kaneva*

Desktop publishing: *R. Kaneva*

Size: 60x84/8

Total print: 160

Cover: *Faxonius limosus* (Rafinesque, 1817) (Decapoda: Cambaridae), a new invasive alien species of European Union concern in Bulgaria (see p. 113). Photo: Milcho Todorov.

Printed by: DEDRAX printing house

Address: Institute of Biodiversity and Ecosystem Research, 1 Tsar Osvoboditel Blvd., 1000 Sofia, Bulgaria

Tel: (+359) 884499726; (+359 2) 988 51 15; Fax: (+359 2) 988 28 97

E-mail: actazoologicabulgarica@gmail.com

ISSN 0324-0770 (print)

ISSN 2603-3798 (online)

Instructions to Authors

General Information

Acta Zoologica Bulgarica publishes contributions in systematics and phylogenetics, zoogeography and faunistics, terrestrial ecology and behaviour, aquatic ecology, parasitology, palaeozoology, zoomorphology and developmental biology, conservation biology, applied zoology and other branches of zoology dealing with diversity, ecology and evolution of animals. The geographical scope of the journal is worldwide but a priority is given to the Bulgarian and Balkan fauna as well as the fauna of associated regions (e.g. Black Sea, Danubian Basin and Southeast Europe). Descriptions of new zoological methods, short reviews of zoological books and information about scientific events are also accepted. Manuscripts are considered on the assumption that they have not been published elsewhere and have not been simultaneously submitted to another journal. Manuscripts must conform strictly with the instructions to authors before being sent to the editor. Papers should follow the *International Code of Zoological Nomenclature* (Fourth Edition, 1999). Incoming manuscripts are initially judged by the editor. If the manuscript is acceptable as corresponding to the scope of the journal and representing a major contribution deserving publication in an international journal, it will be forwarded to reviewers for evaluation. After the approval of the final version by the editorial board, the manuscript will be accepted for publication. The editor reserves the right to make editorial changes. Authors agree, with the acceptance of the manuscript, that the copyright is transferred to the publisher. Manuscripts, proofs, reviews and other correspondence concerning editorial matters should be addressed to the Editorial Office, e-mail actazoologicabulgarica@gmail.com.

Manuscripts

Manuscripts must be submitted in correct English by e-mail. The following formats are accepted: Winword, Word Perfect, InDesign. The text should be left-justified, font size 12, no column or page breaks, double-spaced (c. 30 lines per page), without word hyphenations, A4 format. The pages must be numbered in Arabic numerals. Places of figures and tables within the text should be indicated. Generic and species names must be spelled out at least once in the text and should be in italic. Family names of authors of taxa should be in regular font.

Four categories of contributions are published, with the following size of standard manuscript: 1. Research articles: max. 20 pages, including the list of references, figures, captions to figures and tables (on separate sheets); 2. Review articles (invited or consulted with the editor before the submission): 10-25 pages; 3. Short communications: up to 8 pages; 4. Book reviews: up to 3 pages. Information about scientific events, past or forthcoming, will also be accepted (up to 3 pages). The manuscripts should conform to the following format:

Title: It should be concise and enough informative. Superior taxa should be noted in the title in parentheses, e.g. (Order: Family).

Author(s): Full first name(s), middle initials and surname(s) in bold and italic.

Address(es): As complete as possible, including e-mail address(es).

Abstract: It should consist of only one paragraph of maximum 15 lines, briefly describing main results and conclusions with no description of methods, discussions, references or abbreviations.

Key words: Normally 3-6 items suitable for information-retrieval system, not repeating already those contained in the title.

The standard order of sections should be: Introduction, Material and Methods (including Study Area, if relevant), Results, Discussion, Conclusions (optional), Acknowledgements and References.

Tables: They must not repeat information already presented in the figures or in the text. Each table must be self-explanatory and as simple as possible, it should be double-spaced within an A4 page size. Tables must be numbered consecutively. They should be typed on separate sheets and enclosed after the references. An explanatory caption, located on the top of the table, should be provided.

Illustrations: Lines and letters in figures must be able to be enlarged or reduced without reduction in quality. They should conform to the size of the type area (16.5 x 24 cm), which is the limit for all illustrations. Magnification should be shown by scale bars. Illustrations must be submitted in electronic version in TIF format in minimum 300 DPI. Black and white photographs must be sharp, of high quality, presented on plates (maximum 14x17 cm in size). Figures must be numbered consecutively and should be provided with an explanatory legend on a separate sheet (titled 'Text under figures'). All tables and figures must be referred to in the text. The printed version of the journal may contain only greyscale illustration. The electronic version can contain colour versions of the same illustrations.

Citations and References

Each citation in the text must be accompanied by a full reference in the list of references. Each reference included in the list of references should be cited in the text. The in-text citations are as follows (please, note small caps of author's names): (BURESH 1941), (BURESH 1941: 35) [if a certain page should be cited]; BURESH & ZONKOV (1941); (BURESH 1941, PETROV 1956, IVANOV 1996) [in chronological order] or BURESH et al. (1949), if three or more authors are cited. The references should be arranged primarily alphabetically by the first author's family name and by year of publication in case of multiple publications by the same author(s). In case of papers written in letters other than Latin, if there is an English title in the summary, it may be used instead. If there is not such a summary, the author's name must be transliterated and the title of the paper must be translated into English; in this case, the original language of the cited reference should be noted in parentheses at the end of the paragraph, e.g.: (In Bulgarian). Examples of bibliographic descriptions of references:

AUTHOR A. V. 1990a. Title of the article. Full Title of the Journal 56 (3): 35–105.

AUTHOR A. V. & AUTHOR C. P. 1990a. Title of the article. Full Title of the Journal 56 (2): 35–105.

AUTHOR A. V., AUTHOR B. B. & AUTHOR C. P. 1990a. Title of the article. Full Title of the Journal 56 (1): 35–105.

AUTHOR A. V. 2000b. Title of the book. Place of publication: Publishing House. 220 p.

AUTHOR A. V. & AUTHOR C. P. 1990. Title of the contribution. In: EDITOR V. A. (Ed.): Title of the book or volume. Place of publication: Publishing House, pp. 235–265.

Corrections

The (senior) author will receive only one proof for checking (PDF file). Only printer errors may be corrected. The corrected version should be sent back to the journal editor within two weeks.

For more detailed instructions to authors, see the journal homepage: www.acta-zoologica-bulgarica.eu.

CONTENTS

SYSTEMATICS AND PHYLOGENETICS

- NAUMOVA M. – Descriptions of Two New Spider Species, with New Data on the Albanian Arachnofauna (Arachnida: Araneae, Opiliones, Pseudoscorpiones and Scorpiones)3

ZOOGEOGRAPHY AND FAUNISTICS

- VELIČKOVIĆ T. Z., SIMIĆ V. M., ŠANDA R., RADENKOVIĆ M. D., MILOŠKOVIĆ A. M., RADOJKOVIĆ N. M. & MARIĆ S. P. – New Record of a Population of *Telestes souffia* (A. Risso, 1827) (Actynopterygii: Cyprinidae) in Serbia..... 13
- KOKAVEC I. & ŠPORKA F. – Occurrence and Habitat Preferences of the Euryhaline Oligochaete *Paranaïs litoralis* (Müller, 1784) (Clitellata: Naididae) in a Tributary of the Danube River Middle Stretch21
- TEOFILOVA T.M., & NAUMOVA M. – First Record of *Lilioceris faldermanni* (Guérin-Méneville, 1829) (Coleoptera: Chrysomelidae: Criocerinae) in Bulgaria, Including a Record of a New Host Plant27

ZOOMORPHOLOGY

- URBŠYS A., PILECKAS V., NAINIENĖ R. & ŠIUKŠČIUS A. – Testicular Biometry and Morphological Characteristics of Wild Boar Spermatozoa in Relation to Age during the Anoestrus Period.....31

TERRESTRIAL ECOLOGY AND BEHAVIOUR

- ETISS K., CHAMMEM M. & KHORCHANI T. – Food Preferences of the Crested Porcupine *Hystrix cristata* L., 1758 (Rodentia: Hystricidae) in South-Eastern Tunisia37
- ALTUNTAŞ H. & DUMAN E. – Lethal and Sublethal Effects of Juglone on the Life History Traits of *Galleria mellonella* L. (Lepidoptera: Pyralidae)43

AQUATIC ECOLOGY

- RIMCHESKA B. & VIDINOVA Y. – Ecological Status Assessment of Mountain and Semi-mountain Streams in the Aegean Watershed: Applicability of Biotic Indices BMWP and ASPT Based on Macroinvertebrates49
- BOBORI D. C., MOUTOPOULOS D. K. & CHALKIA V. – Body-size Relations and Mouth Dimensions of Fresh and Preserved Freshwater Fish61
- TÜRKMEN G. & KAZANCI N. – Community Structure of Mayflies (Insecta: Ephemeroptera) in a Biodiversity Hotspot as Revealed by Multivariate Analyses67
- NAUMOV B. Y., POPGEORGIEV G. S., KORNILEV Y. V., PLACHIYSKI D., STOJANOV A. J. & TZANKOV N. D. – Distribution and Ecology of the Alpine Newt *Ichthyosaura alpestris* (Laurenti, 1768) (Amphibia: Salamandridae) in Bulgaria.....83

BIOLOGICAL INVASIONS

- UZUNOVA E., IGNATOV K., DASHINOV D., TASHEVA-TERZIEVA E. & TRICHKOVA T. – The Alien Peipsi Whitefish *Coregonus maraenoides* Polyakov, 1874 (Actinopterygii: Salmoniformes) in Iskar Reservoir, Danube River basin, Bulgaria103
- TODOROV M., TRICHKOVA T., HUBENOV Z. & JURAJDA P. – *Faxonius limosus* (Rafinesque, 1817) (Decapoda: Cambaridae), a New Invasive Alien Species of European Union Concern in Bulgaria.....113

PARASITOLOGY

- OKKAY S. & ÖZER A. – New Locality and Host Record of Some Myxozoan Parasite Species (Cnidaria) off Turkish Coast of the Black Sea123

APPLIED ZOOLOGY

- BOLAT Y. & UÇGUN E. – Effects of Hexagonal- and Diamond-shaped Mesh Traps on Size Selectivity of Freshwater Crayfish *Astacus leptodactylus* Eschscholtz, 1823 (Decapoda: Astacidae) in the Eğirdir Lake, Turkey131
- KARAN S. & TURAN C. – Evaluation of Molecular and Phenotypic Markers for Phylogeographic Analysis of Black Sea Turbot *Scophthalmus maeoticus*137
- HERAL O. & BAYHAN B. – Age and Growth of Morocco Dentex *Dentex maroccanus* Valenciennes, 1830 (Actinopterygii: Sparidae) in Izmir Bay, Central Aegean Sea, Turkey.....149
- ÖZSANDIKÇI U. & GÖNENER S. – Effectiveness of Pingers on the Harbour Porpoise *Phocoena phocoena relicta* Abel, 1905 (Cetacea: Phocoenidae) in Turkey as Revealed by Shore-based Observations155

BOOK REVIEW

- HRISTOV P.I. – Ilyasov R.A. & Kwon H.W. (Eds.) 2020. Phylogenetics of bees. Boca Raton, FL: CRC Press.161

IN MEMORIAM

- GOLEMANSKY V. – Venelin L. Beshovski (1933 – 2019).....163
- NAUMOV B., LUKANOV S. & VACHEVA E. – Vladimir Beshkov (1935 – 2019)165

EDITORIAL ACKNOWLEDGEMENTS

- Editorial Acknowledgements to Reviewers (2019)167