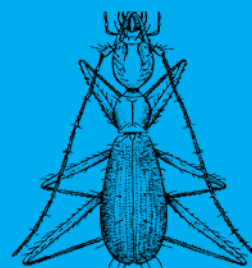


ACTA ZOOLOGICA BULGARICA

76 (4)



2024
December



Institute of Biodiversity and Ecosystem
Research

Bulgarian Academy of Sciences

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

Honorary Editor-in-Chief: *Vassil Golemansky*

Editors-in-Chief: *Boyko B. Georgiev and Simeon Lukanov*

Managing Editor: *Rositsa Kaneva*

Language Editor: *Vesela Evtimova*

Co-editors:

Apostolos Apostolou

Dragan Chobanov

Vesela Evtimova

Rumyana Metcheva

Diana Zlatanova

Mihaela Ilieva

Advisory Board:

Fabio Crocetta (Naples)

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)

Paraskeva Mihailova (Sofia)

Boris Nikolov (Sofia)

Anastasios Legakis (Athens)

Toshko Ljubomirov (Sofia)

Vlada Peneva (Sofia)

Aleksi Popov (Sofia)

Vasil Popov (Sofia)

Guy Smagghe (Ghent)

Milcho Todorov (Sofia)

Margarita Topashka (Sofia)

Yordan Uzunov (Sofia)

Eliza Uzunova (Sofia)

© Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, 2024

Copy editor: *R. Kaneva*

Desktop publishing: *R. Kaneva*

Size: 60x84/8

Cover: Falcon of Petar Bakalov (*Falco bakalovi* Boev, 1999). A palaeoreconstruction by Zlatozar N. Boev.

See Boev, this issue, p. 561.

Printed by: BULGED LTD

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

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

ZOOGEOGRAPHY AND FAUNISTICS

WOJAS T. – New Records of Beetles (Insecta: Coleoptera) for the Fauna of Greece..... 451

TERRESTRIAL ECOLOGY AND BEHAVIOUR

TELENICHEV I.S., SPASOVA V.V. & SIMEONOVSKA-NIKOLOVA D.M. – Exploratory Behaviour and Risk-taking in Two Legless Lizard Species in Bulgaria: the Common Slow Worm *Anguis fragilis* L., 1758 and the Eastern Slow Worm *Anguis colchica* (Nordmann, 1840) (Squamata: Anguillidae)..... 459

TSINGARSKA E.Y., PESHEV H.V., DIMITROV K.Y., SPASOVA V.V. & SIMEONOVSKA-NIKOLOVA D.M. – Home Range, Dispersal and Activity of Wolves *Canis lupus* L., 1758 (Mammalia: Canidae) in South-Western Bulgaria 467

HADJOUJ M. & BEKKARI N. – Rodent Diversity in Desert Wetlands of Oued Righ Region, Septentrional Sahara, Algeria..... 477

LESIŃSKI G., BŁACHOWSKI G., JĘDRZEJEWSKA-DOMALEWSKA E. & KARCZMAREWICZ R. – Use of Forest Tracks by Commuting or Foraging Bats in a Forest-lake Landscape: A Case Study in the Wigry National Park, Poland... 485

KUREK K., JĘDRZEJEWSKA B., GEWARTOWSKA O., TOLKACZ K. & MYSLAJEK R.W. – Factors Affecting Activity Patterns of the Whiskered Bat *Myotis mystacinus* (Kuhl, 1817) (Chiroptera: Vespertilionidae) in the Western Carpathians, Poland 491

NOVČIĆ I., ŽNIDARŠIĆ T.K., KNEŽEVIĆ S., A. VUKIĆEVIĆ A. & RADIŠIĆ D. – Low Probability of Attacks by Hooded Crows *Corvus cornix* L., 1758 (Passeriformes: Corvidae) during the Nest-attendance Period: A Pilot Study 499

LESIŃSKI G., KOWALSKI M., STOLARZ P. & CICHOCKI J. – Which Bat Species are Captured by the Long-eared Owl *Asio otus* (Linnaeus, 1758) (Aves: Strigiformes) in Poland?..... 507

AQUATIC ECOLOGY

MOGALI S.M., SHANBHAG B.A. & SAIDAPUR S.K. – Antipredator Behavioural Responses of Tadpoles of the Indian Painted Frog *Uperodon taprobanicus* (Parker, 1934) (Microhylidae) to Kairomones from the Predatory Tadpoles of the Indian Bullfrog *Hoplobatrachus tigerinus* (Daudin, 1803) (Dicroglossidae)..... 513

CONSERVATION BIOLOGY

BUSHUIEV S., DEMCHENKO V., DEMCHENKO N., NESTERENKO M., DYAKOV O. & KVACH Y. – Assessment of the Lake Kartal (Danube delta, Ukraine) Fish Assemblage Using Invasive and Non-invasive Methods..... 517

DEDOV I.K., HRISTOVSKI S. & KUTANOSKI S. – Mollusc Fauna (Mollusca: Gastropoda and Bivalvia) of the Belchishko Blato Wetland, Republic of North Macedonia..... 529

DYULGEROVA S. & BISERKOV V. – Effect of Landscape Configuration on Bird Communities in Abandoned Agricultural Lands in Bulgaria 533

BIOLOGICAL INVASIONS

COLLADO G.A., CASTILLO V. & ALONSO Á. – First Record of the Exotic Terrestrial Snail *Carychium minimum* Müller, 1774 (Gastropoda: Ellobiidae) in Chile 543

STADNICHENKO S., BONDARENKO O., KURAKIN A.P. & KVACH Y. – Mediterranean Mussel *Mytilus galloprovincialis* Lamark, 1819 (Bivalvia: Mytilidae) Shell Damage Caused by the Invasive *Polydora websteri* Hartman, 1943 (Polychaeta: Spionidae) in the Gulf of Odesa, Black Sea, Ukraine..... 551

PALAEZOLOGY

BOEV Z.N. – Quaternary Records of Eagles (Accipitriformes: Aquilinae) and Falcons (Falconiformes: Falconidae) in Bulgaria..... 561

APPLIED ZOOLOGY

SAĞLAM N.E. & SAMSUN S. – Population Parameters of Whiting *Merlangius merlangus* (L., 1758) (Actinopterygii: Gadidae) in the South-Eastern Black Sea off Türkiye 571

SHORT COMMUNICATIONS

APOSTOLOU A. & KAZAKOV S. – A Survey of the Kremenski Lakes (Pirin National Park) Suggests that the Vairone *Telestes souffia* Risso, 1826 (Actinopterygii: Cyprinidae) Is Not a Native Species of the Fauna of Bulgaria ..579

MACGOWAN I., BARTÁK M. & KUBÍK Š. – New Records and an Updated Checklist of the Family Lonchaeidae (Diptera) from Bulgaria 583

RESEARCH CRITIQUE

BORCZYK B. – Who Would Care about the Science? Critique of the Paper by Gündemir et al. (2023), with Comments on Peer Review Responsibility..... 587

IN MEMORIAM

TOSHOVA T.B. – Professor Mitko Subchev (1945–2023)..... 591