

**CONTENTS**  
(continued from front cover)

The taxonomy of the slipper lobster <i>Chelarcutus cultrifer</i> (Ortmann, 1897) (Crustacea: Decapoda: Scyllaridae), with description of a new species. <b>Chien-Hui Yang and Tin-Yam Chan</b> .....	449
On a new species of <i>Phricotelphusa</i> Alcock, 1909, from a limestone cave in Perlis, Peninsular Malaysia (Crustacea: Decapoda: Brachyura: Gecarcinucidae). <b>Peter K. L. Ng and Patrick K. Y. Lee</b> .....	461
Pelvic-fin brooding in a new species of riverine ricefish (Atherinomorpha: Beloniformes: Adrianichthyidae) from Tana Toraja, Central Sulawesi, Indonesia. <b>Fabian Herder, Renny Kurnia Hadiaty and Arne W. Nolte</b> .....	467
<i>Nomorhamphus rex</i> , a new species of viviparous halfbeak (Atherinomorpha: Beloniformes: Zenarchopteridae) endemic to Sulawesi Selatan, Indonesia. <b>Jan Huylebrouck, Renny Kurnia Hadiaty and Fabian Herder</b> .....	477
<i>Cyrtodactylus majulah</i> , a new species of bent-toed gecko (Reptilia: Squamata: Gekkonidae) from Singapore and the Riau Archipelago. <b>L. Lee Grismer, Perry L. Wood, Jr. and Kelvin K. P. Lim</b> .....	487
The Moluccan short-tailed snakes of the genus <i>Brachyorrhos</i> Kuhl (Squamata: Serpentes: Homalopsidae), and the status of <i>Calamophis</i> Meyer. <b>John C. Murphy, Mumpuni, Ruud de Lang, David J. Gower and Kate L. Sanders</b> .....	501
Synonymised and forgotten, the bird's head stout-tailed snakes, <i>Calamophis</i> Meyer (Squamata: Serpentes: Homalopsidae). <b>John C. Murphy</b> .....	515
<b>CONSERVATION AND ECOLOGY</b>	
Among-genotype variation for sediment rejection in the reef-building coral <i>Diploastrea heliopora</i> (Lamarck, 1816). <b>Gerald C. Y. Lui, Wincent Setiawan, Peter A. Todd and Paul L. A. Erfemeijer</b> .....	525
Relationships of black-fly species of the <i>Simulium tuberosum</i> species-group (Diptera: Simuliidae) in Peninsular Malaysia, with keys to ten Malaysian species. <b>Hiroyuki Takaoka, Mohd Sofian-Azirun, Rosli Hashim, Yasushi Otsuka, Daicus M. Belabut and Tan Poai Ean</b> .....	533
Species composition and distribution of the dominant flyingfishes (Exocoetidae) associated with the Kuroshio Current, South China Sea. <b>Shui-Kai Chang, Chih-Wei Chang and Evelyn Ame</b> .....	539
Feeding biology of eel catfish <i>Plotosus canius</i> Hamilton in a Malaysian mangrove estuary and mudflat. <b>M. U. C. Leh, A. Sasekumar and L.-L. Chew</b> .....	551
Molecular evidence for direct development in the rhacophorid frog, <i>Philautus acutus</i> (Rhacophoridae, Anura) from Borneo. <b>Stefan T. Hertwig, Karin E. Lilje, Pui Yong Min, Alexander Haas and Indraneil Das</b> .....	559
Ecology of <i>Cyrtodactylus sumonthai</i> Bauer, Pauwels & Chanhome, 2002 (Reptilia: Squamata: Gekkonidae): A karst dwelling bent-toed gecko from south-eastern Thailand. <b>Nonn Panitvong, Veerayuth Lauhachinda, Soomet Saithong and Thammanoon Temchai</b> .....	569
Climatic determinants of the reproductive timing in the Asian house gecko, <i>Hemidactylus frenatus</i> Duméril and Bibron (Gekkonidae). <b>J. Lindley McKay and Benjamin L. Phillips</b> .....	583
Low genetic variability in the recovering urban banded leaf monkey population of Singapore. <b>A. Ang, A. Srivasthan, B. M. Md-Zain, M. R. B. Ismail and R. Meier</b> .....	589
<b>BOOK REVIEW</b>	
Fishes of the Greater Mekong Ecosystem with Species List and Photographic Atlas. By <b>Ng Heok Hee</b> .....	595
A Precursor of the Fishes of the Indian Archipelago. Part 1 Siluri and An Illustrated Translation of Bleeker's Fishes of the Indian Archipelago Part II Cyprini. By <b>Ng Heok Hee</b> .....	597



Published by the Department of Biological Sciences, National University of Singapore

Articles appearing in this journal are indexed in: SCIENCE CITATION INDEX®; CURRENT CONTENTS®; AGRICULTURE, BIOLOGY & ENVIRONMENTAL SCIENCE; SCISEARCH®; RESEARCH ALERT®; BIOLOGICAL ABSTRACTS®; CAMBRIDGE SCIENTIFIC ABSTRACTS®; AQUATIC SCIENCES & FISHERIES ABSTRACTS

# The Raffles Bulletin of Zoology

An International Journal of Southeast Asian Zoology

**CONTENTS**

Editorial .....	i
<b>TAXONOMY AND SYSTEMATICS</b>	
Eight new species of <i>Ligophorus</i> Euzet & Suriano, 1977 (Monogenea: Ancyrocephalidae) from mugilids off Peninsular Malaysia. <b>O. Y. M. Soo and L. H. S. Lim</b> .....	241
A new species of semi-aquatic freshwater earthworm of the genus <i>Glyphidrilus</i> Horst, 1889 from the Mekong River (Oligochaeta: Almidae). <b>Ratmanee Chanabun, Ueangfa Bantaowong, Chirasak Sutcharit, Piyoros Tongkerd, Samuel W. James and Somsak Panha</b> .....	265
Taxonomic revision of <i>Dyakia janus</i> from Peninsular Malaysia (Pulmonata: Dyakiidae), with notes on other sinistrally coiled helicaronioids. <b>Chirasak Sutcharit, Piyoros Tongkerd, Shau-Hwai Aileen Tan and Somsak Panha</b> .....	279
<i>Tylopus</i> millipedes in Vietnam (Diplopoda: Polydesmida: Paradoxosomatidae: Sulciferini), with descriptions of five new species. <b>Anh D. Nguyen</b> .....	289
Review of Microcoryphia fauna from Vietnam, with new subgenus, new species of <i>Machilontus</i> Silvestri (Machiloidea: Meinertellidae), and new data for sexual dimorphism in the order. <b>Zhi-Shun Song, Luis F. Mendes and Fu-Sheng Huang</b> .....	313
Guide to the aquatic Heteroptera of Singapore and Peninsular Malaysia. VIII. Leptopodomorpha, families Saldidae, Leptopodidae, and Omanidae. <b>John T. Polhemus and Dan A. Polhemus</b> .....	329
Guide to the aquatic Heteroptera of Singapore and Peninsular Malaysia. IX. Infraorder Nepomorpha, families Ochteridae and Gelastocoridae. <b>Dan A. Polhemus and John T. Polhemus</b> .....	343
<i>Telosticta</i> , a new damselfly genus from Borneo and Palawan (Odonata: Zygoptera: Platystictidae). <b>R. A. Dow and A. G. Orr</b> .....	361
Descriptions of two new species of <i>Simulium</i> ( <i>Simulium</i> ) (Diptera: Simuliidae) from Tioman Island, Peninsular Malaysia. <b>Hiroyuki Takaoka, Mohd Sofian-Azirun and Daicus M. Belabut</b> .....	399
Two new cricket species (Orthoptera: Gryllidae And Mogoplistidae) from the mangrove areas of Singapore. <b>Tan Ming Kai and Tony Robillard</b> .....	411
<i>Birdotanais songkhlaensis</i> , a new genus and species of Nototanaidae (Crustacea: Tanaidacea) from Thailand. <b>Keiichi Kakui and Saowapa Angsupanich</b> .....	421
<i>Grandidierella halophilus</i> a new species of the family Aoridae (Crustacea: Amphipoda) from the saltpans of the Inner Gulf of Thailand. <b>K. Wongkamhaeng, P. Pholpunthin and B. A. R. Azman</b> .....	433

(continues on back cover)

# The Raffles Bulletin of Zoology | R B Z | rmbr.nus.edu.sg/rbz/

The **Raffles Bulletin of Zoology** (RBZ) is an online, peer-reviewed journal which publishes high quality papers in Taxonomy, Systematics, Ecology, and Conservation Biology of animals from Southeast Asia and its adjacent areas. The Journal aims to build up quality information on the “animal diversity” of Southeast Asia in particular. Papers from outside the stated geographic range that deal with material deposited in the Zoological Reference Collection (ZRC) of the Raffles Museum of Biodiversity Research (RMBR), National University of Singapore (NUS) will also be published. Both descriptive and experimental papers will be considered. Single species descriptions and ecosystem studies will be considered for publication. Papers outside the stated policy will be accepted at the discretion of the Editors/Editorial Board.

## EDITORIAL BOARD

**Barry W. Brook** (Charles Darwin University, Australia) • **Chou Loke Ming** (NUS, Singapore) • **Indraneil Das** (Universiti Malaysia Sarawak, Malaysia) • **R. A. I. Drew** (Griffith University, Australia) • **Hugh A. Ford** (University of New England, Australia) • **Fabian Herder** (Zoologisches Forschungsmuseum Alexander Koenig, Germany) • **Michel Jangoux** (University of Brussels, Belgium) • **Maurice Kottelat** (Cornel, Switzerland) • **Damir Kovac** (Senckenberg Museum, Germany) • **Kelvin K. P. Lim** (NUS, Singapore) • **John T. Polhemus** (Colorado University Museum, USA) • **John E. Randall** (Bernice P. Bishop Museum, USA) • **Fred Sheldon** (Louisiana State University, USA) • **Daniel Simberloff** (University of Tennessee, USA) • **S. H. Tan** (NUS, Singapore) • **Y. Tsubaki** (Center for Ecological Research, Kyoto University, Japan) • **E. O. Wilson** (Harvard University, USA) • **S. Yamagishi** (Kyoto University, Japan) • **H. S. Yong** (University of Malaya, Malaysia).

## MANAGING EDITORIAL BOARD

**EDITOR-IN-CHIEF:** Peter K. L. Ng (NUS, Singapore)

**MANAGING EDITOR:** Tan Heok Hui (NUS, Singapore)

**ASSOCIATE EDITORS:** Kevin Conway (Texas A&M University, USA) • Li Daiqin (NUS, Singapore) • Zeehan Jaafar (NUS, Singapore) • Leong Tzi Ming (NUS, Singapore) • Rudolf Meier (NUS, Singapore) • Tohru Naruse (University of Ryukyus, Japan) • Tan Koh Siang (TMSI, Singapore) • Peter A. Todd (NUS, Singapore) • Tran Anh Duc (Hanoi University of Science, Vietnam) • Darren C. J. Yeo (NUS, Singapore)

**COPY EDITOR:** Hazelina H. T. Yeo (NUS, Singapore)

**EDITORIAL ADMINISTRATOR:** Greasi Simon (NUS, Singapore)

**WEBMASTER:** Chua Keng Soon (NUS, Singapore)

## PUBLICATION DETAILS

The **Raffles Bulletin of Zoology** will consist of a single volume (two issues) each year, continuing the sequence of its two predecessors, **Bulletin of the Raffles Museum** (1928–1960) and **Bulletin of the National Museum of Singapore** (1961–1970). A separately numbered supplement series will be published as and when manuscripts and funding permit. About 14 hard-copies of the Journal will be deposited in major publicly accessible libraries to satisfy Article 8.6 of the Fourth Edition of the International Code of Zoological Nomenclature (1999) so that all new names published in the RBZ are considered to be published and available.

## COPYRIGHT AND EXCHANGES

All articles published by the RBZ may be downloaded from <http://rmbr.nus.edu.sg/rbz/biblio/> for research purposes. A condition of publication is that authors assign publication rights to **The Raffles Bulletin of Zoology**. After publication, authors may use the article without prior permission from the Journal provided acknowledgement is given to the Journal as the original source of publication. It is the responsibility of authors to obtain permission to use copyright material from other sources. For permissions and copyright matters, please contact the Managing Editor at [heokhui@nus.edu.sg](mailto:heokhui@nus.edu.sg). For queries on the purchase of back issues or journal exchanges, please contact the Editorial Administrator at [dbsgs@nus.edu.sg](mailto:dbsgs@nus.edu.sg).

## PUBLISHER'S ADDRESS

**The Raffles Bulletin of Zoology** • Raffles Museum of Biodiversity Research • Department of Biological Sciences • National University of Singapore • Block S6 : Level 3 • Science Drive 2 • Singapore 117546 • Republic of Singapore

The **Raffles Bulletin of Zoology** is online at <http://rmbr.nus.edu.sg/rbz/>

ISSN 0217-2445

## INSTRUCTIONS TO AUTHORS

**Submission of manuscripts.** — All manuscripts are to be submitted via email to the Managing Editor, Dr. Tan Heok Hui ([heokhui@nus.edu.sg](mailto:heokhui@nus.edu.sg)). Hard copy manuscript submissions will not be considered. Where possible, authors are encouraged to deposit representative material from papers published in the RBZ with the Zoological Reference Collection (ZRC) of the Raffles Museum of Biodiversity Research (RMBR), National University of Singapore. A recommended list of up to three potential reviewers will be greatly appreciated.

**Presentation.** — Documents produced with Microsoft® Word (.doc) are preferred. Text must be double-spaced throughout. The title page should contain the full title of the paper, the author's name, professional affiliation, and email address, and a short running title of not more than 35 characters. All numbers (except in *Material* section in taxonomic papers) less than 10 should be spelt in full. Italicise all scientific names. All scientific names used or proposed must be in accordance with the Fourth Edition of the International Commission of Zoological Nomenclature (1999). Telegraphic style is recommended for descriptions, diagnoses, and keys in taxonomic papers. The holotype must be clearly designated and depositories for all type specimens must be clearly stated, including catalogue numbers if possible. The origins of all new names (Etymology) must be briefly explained. For new genera, the gender must be stated. Descriptions of new taxa by one author in a paper under another's name are strongly discouraged (e.g., Lim, in Tan & Ong, 1986). Synonyms must be cited in the short form (taxon, author, year, page), with full references at the end of the paper in the LITERATURE CITED. Please refer to the most recent issue of the Journal for the detailed format.

**Digital images.** — For initial submission, greyscale, colour photographic images or line drawings are to be submitted in JPEG format (.jpg) embedded in Microsoft® Word documents. Authors should arrange their line drawings in such a way as to fit into an A4-sized page (210 × 297 mm).

**Review.** — All manuscripts will be sent to an Associate Editor who will have them reviewed by two referees. The Associate Editor decides on provisional acceptance or rejection based on comments submitted by the referees. After acceptance, the manuscript must be revised and emailed to the Associate Editor for verification.

**Abstract.** — All articles should be accompanied by an abstract of not more than 300 words, clearly stating the results and conclusions of the paper. Key words (four to eight words) should be listed following the abstract.

**Literature cited.** — All references cited in the text, including taxonomic authorities for any scientific names, should be included in the LITERATURE CITED section. References are to be cited in the text by the author's family name or surname and year of publication, e.g. (Chan, 1985). For two authors, both names should be cited, e.g. (Polhemus & Polhemus, 1988). For three or more authors, cite only the first name followed by “et al.”, e.g. (Harrison et al., 1950). Citations are listed at the end of the manuscript in alphabetical and chronological order. Journal references should include year of publication, title of paper, **full title of journal**, volume and issue number, and page numbers. Book references should include author's family name and initials, year of publication, title of book chapter, editor (if any), title of book, publisher, city of publication, and the page numbers of the chapter or the book. For example:

King, B., M. Woodcock & E. C. Dickinson, 1975. *A Field Guide to the Birds of South-East Asia*. Collins, London. 480 pp.

Murphy, D. H., 1990. The natural history of insect herbivory on mangrove trees in and near Singapore. *Raffles Bulletin of Zoology*, **38**(2): 119–204.

Nakasone, Y. & M. Agena, 1984. Role of crabs as degrader of mangrove litters in the Okinawan mangals, and food habits of some estuarine fishes. In: Ikebara, S. & N. Ikebara (eds.), *Ecology and Physiology of the Mangrove Ecosystem*. College of Science, University of Ryukyus. Pp. 153–167.

**Tables.** — All tables must have their own legends and be self-explanatory. Tables must be typed separately with double spacing, and formatted with no vertical lines and minimal horizontal lines.

**Page and colour page charges.** — There are no page charges. Authors with papers longer than 20 pages are advised to write to the Managing Editor before submission. There will be a charge of S\$200 for each colour plate.

**Proofs and reprints.** — Proofs in PDF format are emailed to authors for correction and approval, together with the copyright transfer and reprint order forms. Reprint orders are taken with returned proofs. Authors will receive an electronic reprint in PDF format for personal use (note that copyright remains with the publisher). Authors may purchase hard copy reprints at a cost of S\$1.00 per page without colour plates, and S\$2.00 for a page with colour plates.

**Detailed instructions to authors are available at <http://rmbr.nus.edu.sg/rbz/author.htm>**