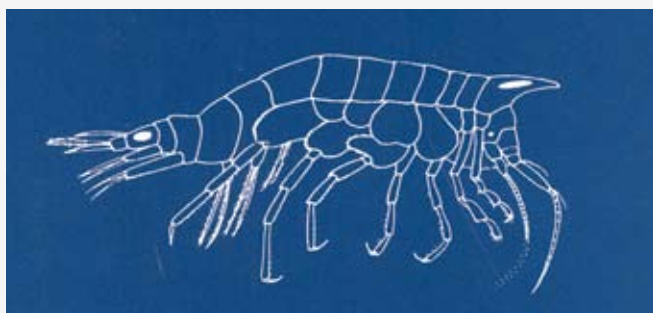




The Crustacea



Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea



Brill is pleased to announce that with this edition, access to the texts of the famous *Traité de Zoologie* is now available to a worldwide readership. Parts 1, 2, and 3A of volume VII, i.e., the Crustacea, were published in French in, respectively, 1994, 1996, and 1999. Brill recognized the importance of these books and arranged for a translation to be made. However, some of the manuscripts dated from the early 1980s and it was clear from the beginning that in many fields of biology a mere translation of the existing text would not suffice. Thus, all chapters have been carefully reviewed, either by the original authors or by newly attracted specialists, and adequate updates have been prepared accordingly. As the current standard works on Crustacea in English (Th. Waterman's *The Physiology of Crustacea*, D.E. Bliss' *The Biology of Crustacea*, and F.R. Schram's *Crustacea*) date back

from the 1960s through to the 1980s, it seems obvious that The Crustacea published in this Treatise on Zoology will take over as a standard reference to the biology and systematics of the group for the next decades. The fact that the editor of the original French edition, J. Forest, could be contracted as a supervisor and editor for the current series, proved to be of great advantage. Thus, with J.C. von Vaupel Klein, the principal translator, and F.R. Schram as an advisor, these three well-known scientists have edited the new version in an attempt at meeting the demands and expectations of the carcinological world.

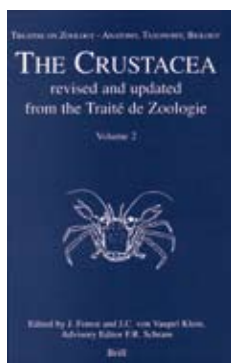
In order to ensure availability of the new texts in an early stage, the series is planned to comprise at least 8 volumes (of approx. 450 pp. each), based on the French parts hitherto published.

J. Forest is well known for his work on decapod crustacean taxonomy. As editor of the original French edition he acts as Supervisory Editor.

J.C. von Vaupel Klein, the principal translator of this series, until recently was associate professor at the University of Leiden (now retired) and has been Managing Editor of *Crustaceana* since 1985.

F.R. Schram used to be a full professor at the University of Amsterdam; now emeritus, he is still active in many fields of crustacean research as a research associate at the University of Washington, Seattle, and is Advisory Editor for this series.

Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea, Volume 2



Edited by J. Forest and J.C. von Vaupel Klein. Advisory Editor: F.R. Schram

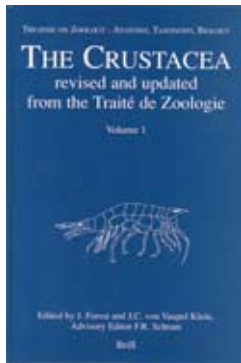
- December 2006
- ISBN 978 90 04 13791 2
- *Hardback* (viii, 522 pp.)
- List price EUR 195.- / US\$ 263.-
- Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea, 2

This second volume contains chapters on:

- The circulatory system
- The digestive tract: anatomy, physiology, and biochemistry
- Osmoregulation: morphological, physiological, biochemical, hormonal, and developmental aspects
- The endocrine organs
- The ontogeny of sex and sexual physiology
- The origins of crustacean larvae

The volume concludes with a list of contributors, as well as with both taxonomic and subject indices.

Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea, Volume 1



Edited by J. Forest and J.C. von Vaupel Klein. Advisory Editor: F.R. Schram

- June 2004
- ISBN 978 90 04 12918 4
- *Hardback* (viii, 446 pp.)
- List price EUR 195.- / US\$ 263.-
- Treatise on Zoology - Anatomy, Taxonomy, Biology - The Crustacea, 1

This first volume contains chapters on:

- The Crustacea: definition, primitive forms, and classification
- Segmentation, tagmata, and appendages
- The integument: morphology and biochemistry
- Chromatophores and pigmentation
- Moulting, autotomy, and regeneration
- Eyes and vision
- The non-visual sense organs
- Luminous organs and luminescence

'This excellent publication is the first in what will be a six- to eight-volume series on the Crustacea, [...] Students and researchers worldwide will welcome this outstanding reference. Well organized and clearly written [...] it offers lengthy bibliographies and both taxonomic and subject indexes. Summing up: Highly recommended. Library collections supporting research on the Crustacea at the upper-level undergraduate level and above.'

R.C. Graves, emeritus, Bowling Green State University. *CHOICE*, Issue March 2005.

All chapters have been carefully reviewed, either by the original authors or by specialists selected and invited by the editors, and updated accordingly. Taxonomic and subject indices are supplied, as is a list of contributors.

FORTHCOMING

For forthcoming volumes, Mrs. M. Charmantier-Daures (Montpellier, France) has been contracted as an additional Advisory Editor. The volumes planned will contain chapters on:

Volume 3: General chapters (*from French volume 1*), scheduled to appear in 2008
Neuroanatomy, Neurohormones, Embryology, and Growth

Volume 4: General chapters (*from French volumes 1 and 2*)
Secondary sexual characters, Gametogenesis, Insemination, Genetics, Crustaceans in the biosphere, Crustaceans and mankind, Parasitism etc., and History of classification

Volume 5: Systematics (*from French volume 2*)
Cephalocarida, Branchiopoda introduction, Branchiopoda I, Branchiopoda II, Remipedia, Maxillopoda general, Tantulocarida, Mystacocarida, Facetotecta, Ascothoracida, Thoracica and Acrothoracica, and Rhizocephala

Volume 6: Systematics (*from French volume 2 and new contributions*)

Copepoda introduction, free-living Copepoda, parasitic Copepoda, Copepoda, phylogeny and classification, Branchiura: Arguloida, Pentastomida I, Pentastomida II, and Ostracoda

Volume 7: Systematics (*from French volumes 2 and 3A, and with a new contribution*)
Malacostraca, Phyllocarida, Hoplocarida, Syncarida, Peracarida introduction, Thermosbaenacea, Speleogriphacea, and Mysidacea

Volume 8A: Systematics (*from French volume 3A*)
Mictacea, Amphipoda, and Isopoda I

Volume 8B: Systematics (*from French volume 3A*)

Isopoda II, Tanaidacea, and Cumacea

Volume 9 [*in one or more parts, with F.R. Schram as principal Editor*]:
Systematics (*from French volume 3B and new contributions*)

Euphausiacea, Dendrobranchiata, Amphionidacea, Caridea, Stenopodidea, Nephropidea, Astacidea, Palinura, Thalassinidea, Anomala/Anomura, Brachyura I, Brachyura II, Brachyura III

Crustaceana Monographs

Post-Embryonic Development of the Copepoda

Frank D. Ferrari and Hans-U. Dahms

- August 2007
- ISBN 978 90 04 15713 2
- *Hardback* (256 pp.)
- List price EUR 135.- / US\$ 189.-
- Crustaceana Monographs, 8

Crustaceans that are now called copepods have been known, not necessarily by that name, since Aristotle. Published reports of their post-embryonic development, however, date only from the last 250 years. This monograph is a first attempt to gather all published information about copepod post-embryonic development. Careful diagnoses of nauplius and copepodid allow comparisons of specific developmental stages among species. Changes from the last naupliar stage to the first copepodid stage are used to interpret the naupliar body. Body and limb patterning are discussed, and models of limb patterning are used to generate segment homologies for the protopod and both rami. Contributions of post-embryonic development to phylogenetic hypotheses are considered and suggestions for future studies are provided.

Frank D. Ferrari, Ph.D. (1974) in Oceanography, Texas A&M University is Research Zoologist and Curator in the Department of Invertebrate Zoology, National Museum of Natural History, Smithsonian Institution. In addition to development, Ferrari also studies copepod taxonomy and distributional ecology.

Hans-U. Dahms, D.Sc. (1997) in Zoology, University of Oldenburg, is a visiting biologist in the Institute of Marine Biology of NTOU (Keelung). Besides various aspects of aquatic biology, Dahms studies copepod development with a focus on nauplii and life histories.

Candoninae (Ostracoda) from the Pilbara Region in Western Australia

Ivana Karanovic



- May 2007
- ISBN 978 90 04 15693 7
- *Hardback* (viii, 434 pp.)
- List price EUR 147.- / US\$ 198.-
- Crustaceana Monographs, 7

The monograph describes the Candoninae fauna of the Pilbara region, containing 84 species and 12 genera, of which 83 species and 11 genera are endemic. The Pilbara region has emerged since the Precambrian and is therefore the most ancient landscape on Earth. The underground life, discovered only recently in the calcrete systems, speaks clearly about the antiquity of the region. One of the most diverse groups thriving in these ancient systems is the ostracode subfamily Candoninae. The number of endemic taxa (83 species, 11 genera, and 1 tribe) illuminates the conservation value of the entire region, which is more than in the ancient Lake Baikal. This exceptional fauna has a separate position on the phylogenetic tree of Candoninae, presented here for the first time. Therefore, this monograph tells not only a story about one fauna but also about the entire subfamily.

Ivana Karanovic, Ph.D. (2000) in Biology, University of Novi Sad (Serbia), is a honorary associate of the Western Australian Museum. She has published extensively on the taxonomy and phylogeny of Ostracoda, and has made major contributions towards the understanding of the underground ostracode fauna of Australia.

Crustaceana Monographs

Upogebiidae of the World (Decapoda, Thalassinidea)

Katsushi Sakai



- October 2006
- ISBN 978 90 04 15150 5
- *Hardback* (x, 186 pp.)
- List price EUR 98.- / US\$ 132.-
- Crustaceana Monographs, 6

In this work, the composition of the family Upogebiidae is reassessed and the classification of its included taxa is critically reviewed. The material examined mainly originates from the collections of the Forschungsinstitut Senckenberg, Frankfurt am Main and the Zoological Museum of the University of Copenhagen, comprising samples from the Galathea Expedition 1950-1952, Dr. Th. Mortensen's expeditions, including the Java South African Expedition 1929-1930, and Dr. G. Thorson's Persian expedition. In all, two subfamilies, 11 genera and 157 species are represented in this revision.

The status of the various taxa recognized is placed in broader context of a re-evaluation of the contents of the infraorder Thalassinidea.

The contents of the book are not only of interest for systematists but also for ecologists and environmental biologists focusing on neritic and benthic biocoenoses, as these mud shrimps are important agents in bioturbation processes of the sea floor.

Katsushi Sakai, Ph.D. (1965) in Zoology, University of Kyusyu, is Professor emeritus of Shikoku University at Tokushima, Japan. He has published extensively on the classification of thalassinids, and compiled the *Crabs of Japan* from the *ETI, the world Biodiversity Database* (2004).

Deep-sea Tanaidacea (Peracarida) from the Gulf of Mexico

Kim Larsen



- November 2005
- ISBN 978 90 04 14210 7
- *Hardback* (x, 382 pp.)
- List price EUR 98.- / US\$ 132.-
- Crustaceana Monographs, 5

This book deals with a large number of deep-sea taxa of Tanaidacea from the Gulf of Mexico, primarily collected during the Deep Gulf of Mexico Benthos Study and the North Gulf of Mexico Continental Shelf Study. Four new genera, are described. Twenty-one new species belonging to the new and existing genera are described as well, in many cases by both sexes.

In addition to the specific parts, this volume provides a review of tanaidacean morphology, anatomy, physiology, ecology, development, reproduction, behaviour, and of other aspects of their biology.

Crustaceana Monographs

Callianassoidea of the World (Decapoda, Thalassinidea)

Katsushi Sakai



- November 2005
- ISBN 978 90 04 14211 4
- *Hardback* (vi, 286 pp.)
- List price EUR 98.- / US\$ 132.-
- Crustaceana Monographs, 4

The classification of the mud shrimps of the superfamily Callianassoidea, currently including at least 3 families with 20 genera and 219 species, is revised. These shrimps are important agents in sea floor bioturbation, hence comprise a crucial factor in the ecology of neritic and benthic habitats as well as in processing near-shore pollutants.

Subterranean Copepoda from Arid Western Australia

Tomislav Karanovic



- February 2004
- ISBN 978 90 04 13649 6
- *Hardback* (vi, 366 pp.)
- List price EUR 98.- / US\$ 132.-
- Crustaceana Monographs, 3

This is the first comprehensive study of the subterranean copepods from Australia. It contains descriptions of five new genera and 24 new species. Many representatives of this unique fauna are of ancient origin, dating as far back as the Jurassic.

The Biology of Terrestrial Isopods *Proceedings of the 5th International Symposium on the Biology of Terrestrial Isopods*

Edited by S. Sfenthourakis, P.B. de Araujo,
E. Hornung, H. Schmalzfuss, S. Taiti and K. Szlavetz



- February 2004
- ISBN 978 90 04 12496 7
- *Hardback* (x, 386 pp.)
- List price EUR 98.- / US\$ 132.-
- Crustaceana Monographs, 2

The book contains papers presented at the 5th International Symposium on the Biology of Terrestrial Isopods, dealing with most aspects of the biology of terrestrial isopods, such as ecology, systematics, biogeography, reproductive biology, physiology, endocrinology, etc.

Larvae of Anomuran and Brachyuran Crabs of North Carolina *A Guide to the Described Larval Stages of Anomuran (Families Porcellanidae, Albuneidae, and Hippidae) and Brachyuran Crabs of North Carolina, USA*

Stephan G. Bullard



- October 2003
- ISBN 978 90 04 12841 5
- *Hardback*
(viii, 138 pp., richly illustrated)
- List price EUR 73.- / US\$ 98.-
- Crustaceana Monographs, 1

This guide represents a compilation of the available descriptions of the zoeal and megalopal stages of anomuran and brachyuran crabs of North Carolina, USA. Descriptions and keys for the zoeae of 44 species and megalopae of 34 species are included.

Life and work of Dr. Johannes Govertus de Man (1850-1930)

A Crustacea and Nematoda specialist

Gerrit Karssen



- 2006
- ISBN 978 90 04 14969 4
- Hardback & CD-ROM (120 pp.)
- List price EUR 73.- / US\$ 98.-

This book describes the life and work of Dr. Johannes Govertus de Man (1850-1930), a remarkable Dutch invertebrate zoologist. J.G. de Man worked on the systematics of both the Crustacea, in particular on Decapoda (i.e., crabs, crayfish, lobsters, and shrimps), and the microscopic Nematoda or roundworms.

The biographic part describes his years of childhood and youth, student days and the time he was working at the National Museum of Natural History, Leiden, the Netherlands and the period after he resigned at the museum. In appendices, his publications, described Crustacea, Nematoda and other taxa, species named after De Man, and the De Man archive are presented. A selection of his drawings and a CD-ROM with his 1884 Nematoda monograph are included.

'[The] the printing and reproduction of plates in the book are of excellent quality. [...] We should be grateful to [...] Gerrit Karssen for having done a wonderful job in making all this information available to us.'

A. Coomans, *J. Nematode Morphol. Syst.*, 9 (2): 193-195 (2006, publ. 2007)

Crustaceans and the Biodiversity Crisis

Edited by F.R. Schram and J.C. von Vaupel Klein

- 1999
- ISBN 978 90 04 11387 9
- Hardback (xii, 1022 pp.)
- List price EUR 250.- / US\$ 338.-

This important and extensive volume presents part of the *Proceedings of the Fourth International Crustacean Congress* held in Amsterdam in 1998. The book is primarily meant for scientists working at institutes involved in research on the group (Crustacea: marine, freshwater, or terrestrial).

Crustaceana *International Journal of Crustacean Research*

Managing Editor:

J.C. von Vaupel Klein,
Leiden, The Netherlands



- 2008: Volume 81 (in 11 issues)
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Crustaceana is the foremost journal in the world on crustacean research. Including the latest papers from all branches of zoology, it gives up-to-date information on aspects such as taxonomy, zoogeography, ecology, physiology, anatomy, genetics, palaeontology, and biometry, and covers all groups of Crustacea. Boasting a large international circulation, *Crustaceana* takes care to supply its readers with an abstract to each article printed in both English and another congress language. Numerous tables and figures add to the already detailed papers. A special "Reviews" section introduces relevant books and is supported by the "Announcements", providing information on forthcoming meetings and events in the field. In addition, an extensive segment of "Notes and News", is included regularly. *Crustaceana* is the one journal that no one interested in this field should be without.

Thomson Scientific's Journal Citations Report for 2006 ranks *Crustaceana* with an Impact Factor of 0.421.

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