

# AQUATIC SCIENCE



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## Marine Flatworms **NEW**

### The World of Polyclads

Leslie Newman & Lester Cannon

Southern Cross University, Queensland Museum

*Marine Flatworms* is a fascinating introduction to the intriguing world of polyclad flatworms, a group of large marine Platyhelminthes, found throughout the world and most colourful in tropical waters. Although not related to molluscs, they are often mistaken for sea slugs because of their brilliant colour patterns.

Written in an accessible style this book explores flatworms' unusual structure, feeding habits, their curious reproductive behaviour (including 'penis fencing'), their mimicry and toxicology.

This is the first comprehensive guide to polyclad families and genera and contains more than 300 colour photographs from around the world.

■ April 2003 • CSIRO PUBLISHING • 0643068295 • 112 pp  
colour illustrations • paperback

**\$39.95**



## Field Guide to Australian Sharks & Rays

RK Daley, JD Stevens, PR Last & GK Yearsley

CSIRO Marine Research, Fisheries R&D Corporation

Australia has an extremely diverse shark and ray fauna. There are more than 300 different species and at least half of these are thought to only occur in our waters. This user-friendly guide was developed so that fishers, observers, and scientists can identify the main Australian target and bycatch species of sharks, rays and chimaerids.

It includes full colour illustrations, distribution maps and descriptions, which will be of interest to divers, naturalist and students of aquatic science.

■ 2002 • CSIRO PUBLISHING • 1876996102 • 88 pp  
colour illustrations • paperback

**\$24.95**



## Marine Mammals **FORTHCOMING**

### Fisheries, Tourism and Management Issues

Nicholas Gales, Mark Hindell & Roger Kirkwood

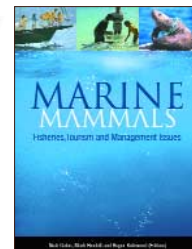
Australian Antarctic Division, University of Tasmania,  
Philip Island Nature Park

*Marine Mammals* provides an up-to-date review on the way we manage our interactions with whales, dolphins, seals and dugongs and examines how we have fared conserving the world's marine mammal populations, with a focus on fisheries and tourism. Leading scientists from around the world consider how science informs the culling debate, the development of aquaculture, measuring the effects of whale and dolphin watching industries on their subjects, how ethics and marine mammal science interact, and genetics and the survival of whale species.

With a strong Southern Hemisphere perspective, *Marine Mammals* discusses issues that contribute to a global view of these concerns and is an invaluable and accessible resource for all those involved with marine mammals.

■ September 2003 • CSIRO PUBLISHING • 0643069534 • 480 pp  
illustrated • hardback

**\$145.00**



## Marine and Freshwater Research

*Marine and Freshwater Research* publishes original contributions in marine, estuarine and freshwater research. The journal's wide subject scope imparts a particular strength in publishing multidisciplinary papers that seek to integrate topics from diverse fields. Each volume includes not only general issues dealing with topics of biology and ecology of aquatic organisms, biogeochemistry, physiology, genetics, phylogeography, hydrology, oceanography and toxicology, but also single-themed issues encouraging the reader to cross between disciplines.

■ ISSN 1323-1650 • Volume 55 • 2004  
Frequency: 8 issues per year  
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**New Editor 2003**  
Dr Dugald McGlashan  
Email:  
[publishing.mfr@csiro.au](mailto:publishing.mfr@csiro.au)

## Polychaetes

FORTHCOMING

### An Interactive Identification Guide

RS Wilson, PA Hutchings & CJ Glasby

Museum Victoria, Australian Museum, Northern Territory Museum

Polychaete worms are diverse and numerous in nearly all marine habitats world-wide, and are often the most species-rich and most abundant invertebrate group collected by marine ecologists. *Polychaetes* allows identification to genus within all 83 polychaete families, anywhere in the world. It also enables identification of all species recorded from Australian waters (excluding Antarctic and Sub Antarctic territories).

#### Features

- All currently recognised living polychaete families are listed, illustrated and diagnosed
- All currently recognised living polychaete genera are diagnosed, and many are illustrated
- Identification of genera and Australian species for both specialist and non-specialist users
- Fully illustrated characters enabling the user to quickly gain knowledge of the group required for identification
- An illustrated glossary of all characters

■ August 2003 • CSIRO PUBLISHING • 0643067027 • CD-ROM **\$145.00**



## Mollusca: The Southern Synthesis

### Fauna of Australia Volume 5

PL Beesley, GJB Ross & A Wells

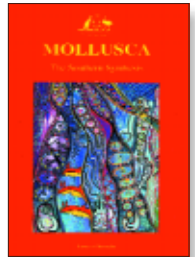
Australian Biological Resources Study

*Mollusca: The Southern Synthesis* is the most comprehensive and authoritative treatment yet of Australia's marine, freshwater and terrestrial molluscs. The Phylum Mollusca is also a significant component of biodiversity globally and molluscs are an important economic resource internationally, and are increasingly used as environmental indicators.

This reference provides a series of overviews at one or more levels for the phylum and six classes, introducing accounts for the 423 molluscan families presently recognised in the region. It is essential for malacologists worldwide, and at each level details are presented on: morphology and physiology; natural history; biogeography and phylogeny; history of discovery; and economic significance.

■ 1998 • CSIRO PUBLISHING/ABRS • 0643057560 • 1250 pp  
2 Volumes colour illustrations • hardback

**\$320.00**



## Staghorn Corals of the World

### A Revision of the Genus *Acropora*

Carden Wallace

Museum of Tropical Queensland

This invaluable reference tool is the first major review of *Acropora* in over 100 years. It assesses all the known species worldwide, describing each in detail and illustrating the range of variability of form with habitat and geographic location. The classification, evolution and worldwide distribution of all species are reviewed and illustrated with colour plates, full page black and white plates and distribution maps. Details of the general biology of staghorn corals are discussed and illustrated.

■ 1999 • CSIRO PUBLISHING • 0643063919 • 438 pp  
colour illustrations • hardback

**\$140.00**



## Polychaetes and Allies

### Fauna of Australia Volume 4A

PL Beesley, GJB Ross & CJ Glasby

Australian Biological Resources Study

"... a majestic publication, and a great piece of science..."

Dr John Pearce, USA Editor, *Marine Pollution Bulletin*

*Polychaetes and Allies* is the most comprehensive account of the polychaetes ever published; it also deals with the Echiura, Sipuncula, Pogonophora, and the parasitic Myzostomida, described fully in English for the first time.

The authors reveal the wealth of diversity in the largely unknown world of these worm groups, including their morphology, behaviour, reproduction and significance in marine ecosystems.

Polychaetes dominate soft bottom marine communities and are important in the food web, both as predators and as prey for animals, including crustaceans, fish and wading birds. Many species are important bioturbators of sediment and facilitate the incorporation of organic matter and can be used as environmental indicators of pollution or health of a benthic community.

■ 2000 • CSIRO PUBLISHING/ABRS • 0643065717 • 478 pp  
colour illustrations • hardback **\$185.00**



## Staghorn Corals of the World CD-ROM

### A Key to Species of *Acropora*

Carden Wallace

Museum of Tropical Queensland

■ 1999 • CSIRO PUBLISHING • 0643063900  
Repackaged CD-ROM with PDF manual

**\$145.00**

## Staghorn Corals of the World Set

■ 1999 • CSIRO PUBLISHING • 0643063943 • hardback & CD-ROM **\$230.00**

## Australian Seafood Handbook

### An Identification Guide to Domestic Species

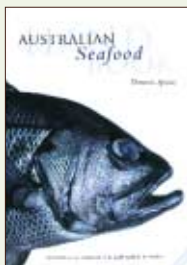
GK Yearsley, PR Last & RD Ward

CSIRO Marine Science

Superb full colour photographs of approximately 350 species of finfishes and shell fishes including crustaceans, jellyfishes, molluscs, sea cucumbers and sea urchins are included in this comprehensive, user-friendly identification guide. Oil composition profiles, protein fingerprints and fish fillet features are also provided.

This is an essential reference for all professional and recreational fishers, fishmongers, processors, biologists and seafood consumers. It contains everything you need to know about recognising and identifying the rich variety of seafood species found in Australian waters.

■ 2001 • FRDC/CSIRO PUBLISHING • 0643061940 • 469 pp  
colour illustrations • hardback



**\$49.95**

## Australian Seafood Handbook

### An Identification Guide to Imported Species

GK Yearsley, PR Last & RD Ward

CSIRO Marine Science

The quantity, diversity and origins of seafood imports to Australia have increased dramatically in recent decades, and importers now supply more than 60% of the commercial market in Australia.

Australia's 225 imported seafood species are superbly documented in this user-friendly and comprehensive identification guide. Colour photographs, protein fingerprints, and fish fillet features are provided for an amazing variety of seafood: finfishes, crustaceans, molluscs, jellyfishes, sea cucumbers and seaweeds. It is an easy-to-use guide to all major seafood species imported, including fish fillets, which link each species to its approved, national marketing name.

■ February 2003 • FRDC/CSIRO PUBLISHING • 1876996315 • 224 pp  
colour illustrations • hardback

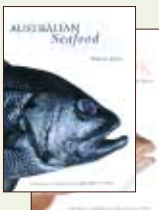


**\$49.95**

## Australian Seafood Handbook Set

### An Identification Guide to Domestic Species + An Identification Guide to Imported Species

■ February 2003 • FRDC/CSIRO PUBLISHING • SETASH  
colour illustrations • hardback **\$89.95**



## Field Guide to the Freshwater Fishes of Australia

GR Allen, SH Midgley & M Allen

WA Museum

From tiny gobies to the giant barramundi, this comprehensive guide covers nearly 300 species – every fish known to inhabit freshwater on the Australian continent. Stunning illustrations in full colour, with additional hints for rapid identification, complement the concise summary of biological knowledge, distribution maps and details on general features as well as habitat and status information.

This spectacular guide is an essential reference for scientists, aquarists, fishers and every person who appreciates Australia's extraordinary natural heritage.

■ 2002 • WA Museum • 0730754863 • 410 pp  
colour illustrations • paperback



**\$45.00**

## Guide to Squid, Cuttlefish and Octopuses of Australasia

Mark Norman & Amanda Reid

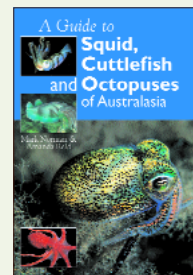
University of Melbourne

The Australasian region is home to the greatest diversity of cephalopods — squid, cuttlefish, octopuses — in the world and this book provides insights into the biology and behaviour of more than 60 species. From the Giant Squid to the deadly Blue-ringed Octopus, the secret lives of these fascinating marine animals is revealed with outstanding colour images and informative text.

For each species there is a distribution map and identification notes and whilst the book focuses on species found in relatively shallow coastal waters, a few of the more bizarre deeper-water species are included.

Naturalists, divers, reef-walkers and anglers will find the book authoritative, yet very easy to use. A comprehensive section illustrating cuttlebones will enable beachcombers to identify most of the species they are likely to encounter.

■ 2000 • CSIRO PUBLISHING • 0643065776 • 96 pp  
colour illustrations • paperback



**\$29.95**

[www.publish.csiro.au](http://www.publish.csiro.au)

## The Waterbug Book

### A Guide to the Freshwater Macroinvertebrates of Temperate Australia

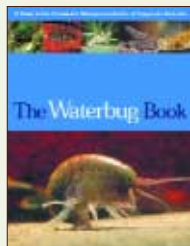
John Gooderham & Edward Tsyrlin

**Shortlisted for Scholarly Reference category in the 2003 Awards for Excellence in Educational Publishing.**

"The authors write with authority and just the right lightness of touch. The colour pictures (more than 350) of live creatures are excellent. ... A superb example of scientific publishing for a broad readership."

*The Australian August 2002*

Freshwater macroinvertebrates provide a useful and reliable indicator of the health of our rivers, streams, ponds and wetlands. *The Waterbug Book* is a comprehensive and accurate identification guide for both professionals and non-professionals. It contains an easy-to-use key to all the macro-invertebrate groups and, for the first time, high quality colour photographs of live specimens. It provides a wealth of basic information on the biology of macroinvertebrates, and describes the SIGNAL method for measuring water quality.



■ 2002 • CSIRO PUBLISHING • 0643066683 • 240 pp  
colour illustrations • paperback

**\$39.95**

## Rivers as Ecological Systems

### The Murray-Darling Basin

*Rivers as Ecological Systems* draws on the expert opinion of more than 30 river scientists. This beautifully presented book describes the link between river flows, sediment and nutrient transport, river channel forms and river and floodplain habitats, plants and animals. It is fully referenced and illustrated with more than 150 full-colour photographs, more than 40 information maps and diagrams, and includes a comprehensive index.



This key reference will underpin the future determination and management of stream flows in the Murray-Darling Basin and will serve as an essential resource for those involved with environmental flow determination.

■ 2001 • Murray-Darling Basin Commission • 1876830034 • 336 pp  
colour illustrations • paperback

**\$60.00**

## Molluscan Research

*Molluscan Research* is a major journal for the publication of research articles and reviews in all branches of malacology. It has published papers on molluscan biology, systematics, morphology and ecology since 1957 (as the *Journal of the Malacological Society of Australia* until 1993). The scope of the journal encompasses all aspects of molluscan research, but has an emphasis on studies relating to Australasia, the Indo-west Pacific and South East Asia.

*Molluscan Research* is for professional malacologists, biologists, conservationists, amateurs and students interested in any aspect of the taxonomy, biology, ecology or conservation of molluscs.

■ ISSN 1323-5818 • Volume 24 • 2004 • Frequency: 3 issues per year  
Subscribe at [www.publish.csiro.au/journals/mr](http://www.publish.csiro.au/journals/mr)

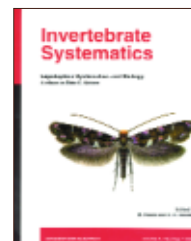


## Invertebrate Systematics

*Invertebrate Systematics* publishes original and significant contributions on the systematics and phylogeny of invertebrates worldwide. Papers provide comprehensive or revisionary treatments of clearly defined taxonomic groups and contain information on the phylogeny, biogeography and other aspects of biodiversity and general biology of the group. Contributions on the systematics of selected species that are of conservation, economic, medical or veterinary importance may also be included, if these aspects are substantially highlighted in the work. General papers, pertinent to invertebrate systematic biology such as methodology, theoretical systematics, cladistics, phylogeny, molecular biology and biogeography are also included.

*Invertebrate Systematics* provides significant contributions on the systematic and phylogeny of invertebrate faunas worldwide.

■ ISSN 1445-5226 • Volume 18 • 2004 • Frequency: 6 issues per year  
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## Ecos

### Science for a Sustainable Future

*Ecos* is Australia's most authoritative magazine on science, sustainable development and the environment. Each issue contains fully illustrated and compelling stories about the scientific world, with easy-to-read highlights of cutting-edge research. Stunningly illustrated, this quarterly publication is crammed with current developments and timely information.

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The Malacostraca, a very large class of Crustacea, is dealt with in four volumes in the *Zoological Catalogue of Australia* series.

## Volume 19.2A

**Crustacea: Malacostraca: Syncarida, Peracarida: Isopoda, Tanaidacea, Mictacea, Thermosbaenacea, Spelaeogriphacea**

GCB Poore

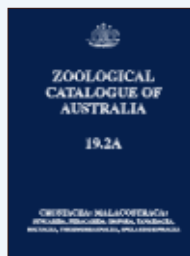
Museum Victoria

Volume 19.2A presents valuable nomenclatural and biological facts on the syncarids, isopods, tanaidaceans and other minor peracarid orders of Crustacea known from Australia. It offers full taxonomic information for 89 families, 351 genera and 1076 described species, with the original literature as well as museum data on the type specimens. Each family introduction is accompanied by a line drawing of a representative species.

The volume gives ready access to distributional details for all species known to occur in the Australian fauna, both inside and outside Australian waters, along with a short summary of known ecological data where possible. All taxonomic groups down to families and subfamilies are fully diagnosed and the latest literature discussing their status is reviewed and summarised. Additionally, there are references to key works that can help identify the fauna at all taxonomic levels.

■ 2002 • CSIRO PUBLISHING/ABRS • 0643069011  
448 pp • illustrated • hardback

**\$140.00**



## Volume 19.2B

**Crustacea: Malacostraca: Peracarida: Amphipoda, Cumacea, Mysidacea**

Helen E Stoddart & James K Lowry

Australian Museum

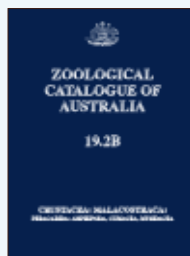
Volume 19.2B catalogues over 1200 species of amphipods (sea fleas, scuds and the beach and land hoppers), cumaceans and mysidaceans (opossum shrimps).

This catalogue brings up-to-date the taxonomy of all known species in the Australian fauna and is particularly important for the cumacean and mysidacean faunas which have not been previously catalogued.

For each species there is information on primary synonymies, status and location of type material, type localities, general distribution and ecology. In addition, new diagnoses for all families and subfamilies are provided as well as references to key literature.

■ June 2003 • CSIRO PUBLISHING/ABRS • 064306902X  
484 pp • illustrated • hardback

**\$140.00**



## Volumes 19.2A & 19.2B Set

■ June 2003 • CSIRO PUBLISHING/ABRS • SETZC192AB  
448 & 484 pp • illustrated • hardback

**\$260.00**

## Volume 19.3A

**Crustacea: Malacostraca: Phyllocarida, Hoplocarida, Eucarida (Part 1)**

Peter JF Davie

Queensland Museum

This volume covers the commercially important shrimps, prawns, lobsters and yabbies, listing over 1200 species known from Australian waters (including Australian Territorial waters).

■ 2002 • CSIRO PUBLISHING/ABRS • 0643067914  
564 pp • illustrated • hardback



**\$140.00**

## Volume 19.3B

**Crustacea: Malacostraca: Eucarida (Part 2): Decapoda — Anomura, Brachyura**

Peter JF Davie

Queensland Museum

Volume 19.3B covers more than 1200 species of Australian crabs (Brachyura) and related groups such as hermit crabs, porcelain crabs, squat lobsters, mole crabs, and their ilk (Anomura). It is the first such attempt to list the Australian fauna since 1882.

■ 2002 • CSIRO PUBLISHING/ABRS • 0643067922 • 656 pp  
illustrated • hardback

**\$150.00**

## Volumes 19.3A & 19.3B Set

■ 2002 • CSIRO PUBLISHING/ABRS • SETZC193AB  
564 & 656 pp • illustrated • hardback

**\$260.00**

## Volume 17.2

**Mollusca: Aplacophora, Polyplacophora, Scaphopoda, Cephalopoda**

KL Lamprell, AM Scheltema, JM Healy, K Gowlett-Holmes  
& CC Lu

Queensland Museum, Woodshole Oceanographic Institute;  
University of Queensland, CSIRO Marine Research, National Chung Hsing University

Volume 17.2 deals with four marine mollusc groups—the Aplacophora, Polyplacophora, Scaphopoda, and Cephalopoda. Each species is cited by name and original references are given to all species known from Australian waters. Information includes synonymy, literature citation, location and status of type material and type locality for each available name, a brief summary of geographical distribution and ecological attributes, and important references on various aspects, especially biology.

■ 2001 • CSIRO PUBLISHING/ABRS • 0643067078  
368 pp • hardback

**\$120.00**

# Guide to Protozoa of Marine Aquaculture Ponds

DJ Patterson & MA Burford

The University of Sydney, CSIRO Marine Research

Guide to Protozoa of Marine Aquaculture Ponds

is designed to provide a simple means of identifying the main groups of protozoa found in aquaculture ponds through the use of photographs and drawings. This is supplemented with information on the likely effects of protozoa on water quality and the health of the cultured species.

This guide is an indispensable tool for those involved in rearing marine animals, as well as aquaculture researchers and teachers.

■ 2001 • CSIRO PUBLISHING • 0643066691 • 56 pp  
colour illustrations • spiral bound



**\$29.95**

## Lagoon

A Marine Ecosystem Simulation

Ralf Cord-Ruwisch & Eric I Paling

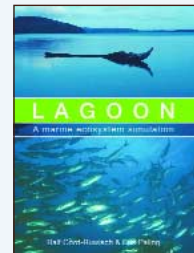
This interactive teaching tool has been specifically developed to help students understand marine ecosystems and concepts such as predator-prey relationships, eutrophication, food chains and competition for limiting nutrients. The computer simulation, which represents any coastal embayment or estuary, provides a learning experience that demonstrates the importance of complexity in ecosystems.

### Features

- Simple to use and extensively trialled with students
- Multiple equation parameters can be manipulated, including: death rate; feeding rate; nitrate inflow; algal growth and their uptake capacity; and the presence of bacteria or algal grazers
- CD-ROM contains a manual and a series of problem-based exercises for students to answer

■ 2002 • CSIRO PUBLISHING • 0643066675 • CD-ROM

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