

BOOK NOTICES

Barlow, G.W. *The cichlid fishes. Nature's grand experiment in evolution.* xvi, 335p. Massachusetts: Perseus Publishing, 2000. Price £16.95.

Aimed primarily at the fish hobbyist, this book examines the biology, evolution and behaviour of cichlid fish.

Deacon, M., Rice, T., Summerhayes, C., editors. *Understanding the oceans. A century of ocean exploration.* xx, 300p. UCL Press, 2001. Price £25.00 (Paperback).

The book brings together a distinguished group of authors to consider the developments in marine science since the voyage of HMS 'Challenger' over a century ago. Covering all of the marine sciences, this book is an accessible and informative introduction to marine science and its historical roots for non-specialists, as well as being a useful reference tool for marine scientists.

Domenici, P., Blake, R.W. *Biomechanics in animal behaviour.* xv, 344p. Oxford: BIOS Scientific Publishers Limited, 2000. Price £90.00 (Hardback).

The book demonstrates how an understanding of biochemical issues is an important part of evaluating and predicting animal behaviour. It considers how behaviour is determined and constrained by biomechanical variables such as hydrodynamics, aerodynamics, kinematics and the mechanical properties of biomaterials.

Friedheim, R.L., editor. *Toward a sustainable whaling regime.* x, 382p. Seattle: University of Washington Press, 2001. Price £24.95 (Hardback).

The book examines the international management of whales and whaling. Contributors consider various aspects of this controversial subject involving issues of international law and negotiation, human vs animal rights, tradition and emerging values and morality, and the role of science in environmental management.

Gibson, R., Hextall, B., Rogers, A. *Photographic guide to the sea and shore life of Britain and north-west Europe.* xiv, 436p. Oxford: Oxford University Press, 2001. Price £35.00 (Hardback), £15.95 (Paperback).

This photographic field guide to seashore animals and plants will be invaluable to all those who wish to identify organisms without causing damage or disruption. Each entry in the guide is accompanied by a colour photograph of the species in question, a map showing its geographical distribution and where necessary, a line drawing to aid identification.

Jackson, J.B.C., Lidgard, S., McKinney, F.K., editors. *Evolutionary patterns. Growth, form, and tempo in the fossil*

record. xvi, 399p. University of Chicago Press, 2001. Price £54.00 (Cloth), £19.00 (Paperback).

This book explores modes of development, the tempo of speciation and extinction and macroevolutionary patterns and trends. This important contribution to palaeo- and evolutionary biology is a valuable tool for anyone wanting to understand evolution and development.

Jennings, S., Kaiser, M.J., Reynolds, J.D. *Marine fisheries ecology.* xiii, 417p. Oxford: Blackwell Science Limited, 2001. Price £29.50 (Paperback).

This textbook describes fisheries exploitation, biology, conservation and management, and reflects many recent and important changes in fisheries science. Written primarily for fisheries science students the book provides readers with a broad understanding of the biological, economic and social aspects of fisheries ecology and the interplay between them.

Kerr, S.R., Dickie, L.M. *The Biomass Spectrum: a predator-prey theory of aquatic production.* xviii, 320p. New York: Columbia University Press, 2001. Price £37.00 (Cloth), £20.00 (Paperback).

This book is the first to present a synthesis of the biomass spectrum approach to studying dynamic ecosystems. Using practical examples, the authors demonstrate how the biomass approach can be used to assess the effects of heavy fishing on aquatic communities.

Martin, J. *Les larves de crustacés décapodes des côtes françaises de la Manche.* v, 174p. Ifremer, 2001. Price 91.47 Euros (Paperback).

Written in French, this guide to decapod crustacean larvae found on the French coast of the English Channel includes identification keys and colour photographs of the Zoeal and Megalopal stages of each species. Providing a wealth of information to aid identification, the book also provides information on species distribution, abundance and water temperature.

McClintock, J.B., Baker, B.J. *Marine chemical ecology.* xi, 610p. Boca Raton: CRC Press, 2001. Price £66.99 (Hardback).

This comprehensive book provides cellular, physiological, organismal, evolutionary, and applied perspectives in the field of marine chemical ecology. It contains up-to-date subject reviews by experts and is fully detailed with figures, tables, and chemical structural diagrams. Coverage spans aspects of marine ecology from molecular to community levels, bridging diverse disciplines.

Moore, J. *An introduction to the invertebrates*. xv, 355p. Cambridge: Cambridge University Press, 2001. Price £40.00 (Hardback), £14.95 (Paperback).

The book is a short guide to the invertebrate phyla, looking at their taxonomy, morphology, physiology and evolutionary relationships. This user-friendly and well-illustrated introduction to the study of invertebrates will be invaluable to students.

National Research Council. *Improving the collection, management and use of marine fisheries data*. xiii, 222p. Washington: National Academy of Sciences, 2000. Price £35.95 (Paperback).

This study evaluates the use of data in fish stock assessments and fishery management, including a variety of issues that range from those specific to summer flounder to more general topics of data use for assessment of marine fish stocks. The report is a valuable information source for scientists and also economists and social scientists.

Rice, T. *Deep ocean*. i, 96p. London: Natural History Museum, 2000. Price £9.95 (Paperback).

The book provides a good general introduction to oceanography, telling how oceanography has developed as a science and summarizing what is now known about the deep ocean environment and the extraordinary array of life that inhabit it. Richly illustrated with colour

photographs, *Deep ocean* provides a compelling view of this mysterious environment.

Scott, D.B., Medioli, F.S., Schafer, C.T. *Monitoring in coastal environments using Foraminifera and thecamoebian indicators*. xiii, 177p. Cambridge: Cambridge University Press, 2001. Price £70.00 (Hardback).

This book describes methodologies for environmental applications of Foraminifera and thecamoebians in freshwater and marine environmental assessment. It introduces the topic with a description of these two groups of protozoans, before describing and demonstrating through methods and techniques. This book will be extremely useful to all those working on coastal environmental problems. It will also be a valuable text for students on environmental or marine science courses.

Sedberry, G.R., editor. *Island in the stream. Oceanography and fisheries of the Charleston Bump*. xii, 240p. American Fisheries Society, 2001. (American Fisheries Society Symposium, no. 25). Price \$65.00 (Paperback); members price \$45.00.

This comprehensive volume on the Charleston Bump, an important geological feature in the Atlantic Ocean, brings together multidisciplinary research from physical scientists, fishery biologists, managers and economists. The book presents new information on the life history stages of swordfishes and other species in the Charleston Bump area and re-examines the oceanography and fisheries of the area.