

Modern Systematics

Prospects in Systematics

edited by D.L. Hawksworth, Oxford University Press (Syst. Assoc. Spec. Vol. 36), 1988, £45.00/\$68.00 hbk (xv + 457 pages) ISBN 0 19 857707 9

Prospects in Systematics is sponsored by the Systematics Association to mark its golden jubilee. It offers a critical review of achievements and developments in systematics over the last 50 years, and more particularly since the publication in 1940 of the Association's seminal work, *The New Systematics*¹. Systematics has witnessed unparalleled activity since the publication of Huxley's book. *Prospects in Systematics* readdresses basic questions about the relevance of systematics, the role it should play into the next century, and the major challenges it now faces.

The book contains 25 chapters organized in six sections. Most of the authors are based in Britain. In the introductory section, Hawksworth and Bisby present a synopsis of the contribution of the Association and an assessment of the state of systematics, its products, user requirements, and the constraints to its development. Mayr reviews recent progress. Heywood reviews the structure of systematics itself.

In the next section, on systematics and evolution, Paterson critically analyses new evolutionary theories and their impact. Claridge emphasizes the situation at and below the species level, with particular reference to concepts of allopatry and sympatry. Felsenstein focuses on techniques for the detection of phylogeny. Hallam stresses the continuing relevance of paleontology in contemporary systematics and evolutionary studies.

The third section discusses the implications of modern methods. Dover, Young and Fergusson separately reflect on the implications for systematics of recent advances in genetics, molecular biology and biochemistry. Joysey cautions against simplistic approaches to systematics, as do Duckett and Gower for ultrastructural and numerical approaches respectively. Phenetic and cladistic approaches are compared by Sneath, who emphasizes the need to question what a particular classification is for.

In the section on taxonomic information systems, Bisby stresses the importance of communication with users, while Watson *et al.* demonstrate what has already been achieved. Clarke and Alkin, in separate chapters, look at the ways in

which bibliographic data bases and taxonomically intelligent data bases might develop in future. Ride considers how codes governing the basic taxonomic information, scientific names, need to evolve to accommodate modern users' requirements.

In the fifth section, on applications, Nolen discusses the use of names in microbiology. Pickersgill, and Muller and Baker, illustrate the relevance of systematics at the species level to diverse aspects of applied biology.

In the final section, on prospects for the next century, Haskel and Morgan review user needs and obstacles to their fulfilment, and make proposals for the future organization of the subject. Berry stresses the need for an increased level of understanding of the variety of life in the education of biologists. Margulis shows how the number of kingdoms of living organisms must be expanded to accommodate the endosymbiotic theory of the evolution of eukaryote

cells and the wealth of new data with systematic relevance.

A minor criticism of the book is that biogeography, the sister discipline of systematics, is mentioned only in passing. A chapter on the relationships between systematics and biogeography, with special reference to the power of phylogenetic studies as applied to historical biogeography, would have been useful.

Reading this volume, one cannot help but feel that systematics is one of the most indispensable, active, and rewarding branches of biology. *Prospects in Systematics* is an important contribution that will benefit advanced students and professionals alike.

Jorge V. Crisci

Museo de La Plata, 1900 La Plata, Argentina

Reference

- 1 Huxley, J.S., ed. (1940) *The New Systematics*, Oxford University Press

An Introduction to Modeling

Dynamic Modeling in Behavioral Ecology

by Marc Mangel and Colin W. Clark, Princeton University Press (Monographs in Behavior and Ecology Series), 1988, \$45.00 hbk, \$15.95 pbk (xii + 308 pages) ISBN 0 691 08506 4



The last two decades have seen a huge growth in the number of optimization models in behavioral ecology. Initially, most models looked at restricted situations where it was reasonable to assume that maximization of fitness was equivalent to maximization of some simple currency such as the mean net rate of energetic gain. The authors of this book have been two of the main propagandists for the use of dynamic models. These models look at sequences of behavior over time, and attempt to link present actions to

future life history, so that the currency maximized is fitness itself. Such models are enormously more powerful than the old simple models. They are able to take the animal's state into account, and because fitness provides a common currency, are able to compare the benefits of different types of action.

This book describes how to construct dynamic models, and illustrates their use by a number of examples. The book is divided into three parts.

Part I describes the technical details of dynamic programming. These are taught through an example in which an animal can choose between different patches of food. A 'hands on' approach by the reader is definitely called for here. The authors' philosophy seems to be that to learn how to build dynamic models you have to do it yourself. Thus, to do justice to this book one really needs to spend much time and effort working on examples. This is especially true for Part I, but something of this approach still applies to Part II, where supplementary exercises are occasionally suggested. If one is prepared to put in the required effort then there is a wealth of wisdom and experience here, with many hints and much technical advice. This makes the book excellent for graduate students.

In addition to the basic patch-choice model, appendices provide

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Prospects In Systematics:

Biological Systematics Alessandro Minelli, 2012-12-06 To some potential readers of this book the description of Biological Systematics as an art may seem outdated and frankly wrong For most people art is subjective and unconstrained by universal laws While one picture play or poem may be internally consistent comparison between different art products is meaningless except by way of the individual artists On the other hand modern Biological Systematics particularly phenetics and cladistics is offered as objective and ultimately governed by universal laws This implies that classifications of different groups of organisms being the products of systematics should be comparable irrespective of authorship Throughout this book Minelli justifies his title by developing the theme that biological classifications are in fact very unequal in their expressions of the pattern and processes of the natural world Specialists are imbibed with their own groups and tend to establish a consensus of what constitutes a species or a genus or whether it should be desirable to recognize sub species cultivars etc Ornithologists freely recognize subspecies and rarely do bird genera contain more than 10 species On the other hand some coleopterists and botanists work with genera with over 1500 species This asymmetry may reflect a biological reality it may express a working practicality or simply an historical artefact older erected genera often contain more species Rarely are these phenomena questioned

The Evolution of Phylogenetic Systematics Andrew Hamilton, 2013-11-09 The Evolution of Phylogenetic Systematics aims to make sense of the rise of phylogenetic systematics its methods its objects of study and its theoretical foundations with contributions from historians philosophers and biologists This volume articulates an intellectual agenda for the study of systematics and taxonomy in a way that connects classification with larger historical themes in the biological sciences including morphology experimental and observational approaches evolution biogeography debates over form and function character transformation development and biodiversity It aims to provide frameworks for answering the question how did systematics become phylogenetic

Principles and Techniques of Contemporary Taxonomy Donald L.J. Quicke, 2013-03-13 Taxonomy is an ever changing controversial and exciting field of biology It has not remained motionless since the days of its founding fathers in the last century but just as with other fields of endeavour it continues to advance in leaps and bounds both in procedure and in philosophy These changes are not only of interest to other taxonomists but have far reaching implications for much of the rest of biology and they have the potential to reshape a great deal of current biological thought because taxonomy underpins much of biological methodology It is not only important that an ethologist physiologist biochemist or ecologist can obtain information about the identities of the species which they are investigating biology is also uniquely dependent on the comparative method and on the need to generalize Both of these necessitate knowledge of the evolutionary relationships between organisms and it is the science of taxonomy that can develop testable phylogenetic hypotheses and ultimately provide the best estimates of evolutionary history and relationships

Foundations of Systematics and Biogeography David M. Williams, Malte C. Ebach, 2007-11-19 Anyone interested in comparative biology or

the history of science will find this myth busting work genuinely fascinating It draws attention to the seminal studies and important advances that have shaped systematic and biogeographic thinking It traces concepts in homology and classification from the 19th century to the present through the provision of a unique anthology of scientific writings from Goethe Agassiz Owen Naef Zangerl and Nelson among others Modern Concepts in Penicillium and Aspergillus Classification Robert A. Samson, John I. Pitt, 2013-11-11 In our view the First International Penicillium and Aspergillus Workshop held in Baarn and Amsterdam in May 1985 was a great success The assembly in one place of so many specialists in these two genera produced both interesting viewpoints and lively discussions But more particularly a remarkable cohesion of ideas emerged borne primarily of the realisation that taxonomy has passed from the hands of the solitary morphologist The future of taxonomy lay in collaborative and multidisciplinary studies embracing morphology physiology and newer methodologies Penicillium and Aspergillus Workshop was borne logically The Second International from the first and was held in Baarn on May 8 12 1989 It was attended by 38 scientists from 16 countries At this Workshop we have attempted to move further into new methods especially by bringing together molecular biologists medical and food mycologists and biochemists as well as more traditional taxonomists We feel that the meeting contributed greatly to dialogue between taxonomists and also fundamental and applied mycologists At the meeting we became aware that the approach to taxonomy of these genera is now becoming more pragmatic with an increasing emphasis on consensus and on stability of names This is a noteworthy development which we as editors welcome So many species in Penicillium and Aspergillus are economically important in biotechnology foods and medicine and practical stable taxonomy is of vital importance These Proceedings comprise 40 papers divided into 9 chapters **Prospects in Systematics** D. L. Hawksworth, Systematics Association, 1988 This book critically reviews the developments and achievements of systematics in the 50 years since the foundation of the Systematics Association in 1937 and more particularly since the appearance of *The New Systematics* edited for the Association by Sir Julian Huxley in 1940 Botanists microbiologists palaeontologists and zoologists theoreticians and practitioners alike consider fundamental aspects of the subject and the directions in which it might develop into the next century The result is a description of a highly active subject adapting concepts and practices to accommodate exciting new information from expanding areas of research one which however also needs to take increased note of the requirements of its users The main challenge for systematics in the coming decades emerges as the need to re establish its central unifying position as the keystone of biology Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1985 *Aspects of Tropical Mycology* British Mycological Society. Symposium, Susan Isaac, 1993-11-25 Considers the role of fungi in the tropical ecosystem and their potential as a source of useful novel compounds **Classification of Mammals** Malcolm C. McKenna, Susan K. Bell, 1997-10-17 Jean Louis Hartenberger Nature

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