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The geographical area covered by this catalog of the Collembola (Springtails and relatives) is the Neotropical Region in its widest sense, plus all of Mexico, and marginal areas such as the Bahama Islands, Islas Malvinas (Falkland Islands), the Juan Fernandez archipelago, and Easter Island. The catalog lists 908 species distributed into 158 genera. It is complete through February, 1989.

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The most interesting butterfly fauna of the United States is that of Florida where these beautiful tropical animals may be seen flying throughout the entire year. All 164 species of Florida butterflies and skippers, plus several strays, are recorded in this book, most in full color, with descriptions and illustrations of all of the breeding butterflies.

DRAGONFLIES of the Florida Peninsula, Bermuda and the Bahamas, by Sidney W. Dunkle. 1989. 6 x 9, 144 p., 129 color plates. Paper: \$12.95.

For the first time, it is possible for the layman to identify the colorful dragonflies that are such a conspicuous part of the waterside scene in Florida and nearby islands, covering all 94 dragonfly species known from this area. With the aid of the color photos and field glasses, all can be identified in the field, as in bird or butterfly watching. Full details for the study of these interesting animals are included in the text.

ADVANCES IN PARASITIC HYMENOPTERA RESEARCH, edited by V. Gupta. 7 x 10, viii + 546 p. biblio., index, illus. Cloth: \$69.95

Recent research on the taxonomy, morphology, biology, host associations, biological control, literature resources, and rearing techniques pertaining to parasitic Hymenoptera. The book is based on the information presented at the II Conference on the Taxonomy and Biology of Parasitic Hymenoptera, recently held in Gainesville, Florida.

ADVANCES IN MYRMECOLOGY, edited by James C. Trager. 1988. 6 x 9 in, xxvii + 551 pp. Paper: \$55.50

This book (with an introduction by E. O. Wilson) treats many aspects of the study of ants, bringing up-to-date their systematics, distribution, ecology, behavior, genetics, physiology, and biochemistry.

■ *Latest printing nearing end; order now before price increase:*

AMERICAN INSECTS - By Ross H. Arnett, Jr. 1985, 8 1/2 x 11 in., 850 p., over 1200 illus. Cloth: \$89.00.

Winner of the R. R. Hawkins award for the outstanding technical, scientific, or medical book of 1985, includes keys and descriptions of all orders and families, and complete list of genera, number of species in each, and descriptions of over 7,000 species.

"Should be in every entomological library, and also in the private offices of individual entomologists who deal with a variety of insects." *Bulletin of the ESA*

■ *KEEP UP WITH THE SYSTEMATICS OF INSECTS OF THE WORLD, subscribe to:*

INSECTA MUNDI, edited by Michael C. Thomas, Quarterly, 8 1/2 x 11, 288 pp. per volume: \$25.00 individuals; \$50.00 institutions.

The systematics of insects of the world are treated in this journal, including new taxa, catalogs, and revisions. (Write to the editor about publication in this journal: no page charges).

■ *Some books in press; prepublication orders at a discount accepted now:*

A CATALOG OF THE NEOTROPICAL COLLEMBOLA, by Jose A. Mari Mutt and Peter F. Bellinger 1989. 6 x 9 in, 237 p. Paper: \$29.95 [prepublication price thru September 30, 1989: \$24.95 SAVE!]

(Continued on inside back cover)

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A MONUMENTAL NEW WORK ON WEST INDIAN BIOGEOGRAPHY!

**BIOGEOGRAPHY OF THE WEST INDIES
Past, Present, and Future**

Edited by Charles A. Woods. 1989 [November 15, 1989]. 7 x 10 in. 896 pp. [ISBN 1-877743-03-8] Cloth: \$125.00. [PREPUBLICATION PRICE: \$65.00, prepaid.*]

Geological aspects of the islands, including marine barriers and terrestrial connections
People and their exploitation of the islands, prehistoric and current
Vegetation history and recent changes, with new work on junipers
Quaternary Land Snails, Fossil Spiders, Butterfly Distribution
Fresh Water Fish Distribution, Serpents: Typhlopidae, Iguanidae, and Colubridae
Birds, Manatees, Mongoose, Bats, and Rodents
Mammals of Greater Antilles compared with Madagascar
Conservation Trends and Strategies of the Greater Antilles

LEADING AUTHORS BRING TOGETHER THE FIRST COMPREHENSIVE VOLUME ON THE WEST INDIES IN
40 YEARS

This series of 32 chapters cover major aspects of animal and plant distribution, and the factors determining this distribution over the past, at the present time, as well as those that will influence the future of these organisms on the islands of the West Indies. The authors use the broadest possible interpretations of the concepts of biogeography, and make a place for historical factors such as anthropology and geology, as well as discussions of the conservation of endemic species.

As a review of the status of biogeography in the West Indies in the 1980's, this book, which emphasizes endemic species and their evolution, serves as a synthesis of our present knowledge of a broad range of topics of relevance to West Indian biogeography. All of the islands of the Antilles are covered, but most of the information is on the Greater Antilles. The status of the evolutionary history of most major plant and animal groups are covered in detail, with analyses as to how this information relates to the history of the organisms on the islands of the West Indies. The coverage also includes discussions of the conservation trends in the Antilles, and what is and should be done to promote the conservation of the endemic species of the area. This book is the only discussion available on a broad view of the biogeography of the Antilles, and is unique in including so many different kinds of organisms, and in attention to coordinate scientific data and conservation strategies.

Studies on the biology of vertebrates provide the largest body of knowledge and therefore form the largest section of this book, and will, therefore, be a useful reference for all vertebrate biologists. This book will find great use in the library of all biologists—botanists, invertebrate zoologists, entomologists, and vertebrate biologists, all of those with an interest in biogeography.

*We all complain about the high cost of technical books. A major portion of this cost is advertising, storage, and tax on stock in storage. Sales in advance of publication saves us advertising, storage, and tax, a cost reduction we can pass on to you as a substantial cut in the list price.

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GENERAL NATURAL HISTORY

THE NATURALISTS' DIRECTORY AND ALMANAC (INTERNATIONAL), 45th edition, 113th year, 1990. Compiled by Ross H. & Mary E. Arnett. 5 5/8 x 8 in., approx. 350 pp. ISBN 1-877743-01-1. Paper \$22.50. [Ready December 30, 1989]

This is a list of the naturalists of the world as an index to the PIFON (Permanent International File of Naturalists), including the Pifon data base number for each naturalist, their mailing address, phone number, and interest statement. The book includes geographical and subject indexes.

First published in 1877 by Samuel Cassino at Salem, Massachusetts, this famous work is now in its 112th year with the publication of the completely updated 45th edition. The new edition has been compiled from new PIFON data forms sent out a year ago to the World's naturalists, with many new names from Europe and Africa. These data are stored in a computer data base and are continuously being updated. This file is a biographical file of naturalists representing nearly every country in the World. In addition to the alphabetical listing of these naturalists, the book contains two essential indexes. A complete geographical index enables the user to search for naturalists in a particular country, state/province, and city/town. This feature is especially useful to naturalists traveling who wish to contact other naturalists in the area visited. Thus, this book is a necessary item to include in the naturalist's travel kit. The subject index is used to find those naturalists with similar interests. This is useful to those wishing to exchange specimens or data. Often it is possible to find someone who will make identifications in particular groups of organisms.

The use of the Directory has changed since it was first published, and the book has changed to meet these new requirements. It is now a biographical index to contemporary naturalists who have registered in the PIFON file. Those persons interested in collecting, exchanging, and identifying specimens as specialists on certain groups of organisms are included. This new focus is of more use to ecologists, museum curators, and others interested in finding specialists. Over the years the mailing list of naturalists has grown to over 15,000. To include all of these with detailed biography would make an expensive book. Therefore, by cropping the list to include only those serious naturalists with these special interests, the book is kept to the same size it has been over the past years. Subscribers to the Directory are given free access to the PIFON file for more names.

The Directories have great historical value. There is only one complete collection of all 45 editions, that of the editors of the series. Originals or photocopies of all editions are available and some back stock of originals are held for research libraries and historians.

IN SEARCH OF REPTILES AND AMPHIBIANS, by Richard D. Bartlett. 1988. 6 x 9 in, xix+363 pp., 40 color illus. ISBN 0-916846-41-5. Cloth \$24.95. ISBN 0-916846-42-3. Paper \$19.95.

You will experience the thrills of an accomplished naturalist's quest for snakes, turtles, lizards, frogs, and toads when you go with the author on his travels throughout the United States, Mexico, Central America, and northern South America. This superb observer sees not only his special friends, the reptiles and amphibians, but also the variety of plants and animals that are a necessary part of each habitat he describes. He paints vivid natural history pictures with words in addition to the 40 full color illustrations of the species and their habitats that he

encounters. Each description, whether it is of the organism itself, what it is doing, or how it fits into its surroundings, is an accurate one. Each observation is made time and time again in true scientific methodology as proof of its validity. The wealth of data is presented in an easy, smoothly written style. Casual naturalists, beginning herpetologists, and professional zoologists will each find new worlds to explore by reading this book.

ADVANCES IN NEOTROPICAL MAMMALOGY, Edited by Kent H. Redford and John F. Eisenberg. 1989. 7 x 10 in., 566 pp., illus. [ISBN 1-877743-02-X] Cloth \$62.50 [Prepublication price \$50.00]

The 25 chapters of this book provide a broad coverage of the Neotropical mammalian groups. Assembled to commemorate the late Professor Ralph Wetzel, these balanced chapters will appeal to taxonomists of both extant and fossil mammals, with the description of several new forms and the revision of groups ranging from mice to ground sloths; to biogeographers with contributions on the mammals of Pico Neblina, Venezuela and the opossums of Venezuela; and to those interested in natural history with data on carnivores including ocelots, jagou-roundi and foxes, armadillos, bats, and capybara. All of the contributions present original data or synthetic analyses of significant problems in Neotropical mammalogy. This volume is a major contribution to the literature on Neotropical mammals. Because of the wealth of original data and ideas presented with it, the book will be an invaluable resource for decades to come.

FLORA & FAUNA HANDBOOK SERIES

(Continuation of the original series from Flora & Fauna Publications)

THE SEDGE MOTHS OF NORTH AMERICA (Lepidoptera: Glyphipterigidae), [Flora & Fauna Handbook No. 1], by John B. Heppner. 1985. 6 x 9 in, vii+254 pp. ISBN 0-916846-32-6. Paper \$29.95.

This revision of the North American Glyphipterigidae, or Sedge Moths, represents the first comprehensive revision of this family for any faunal region of the World. Among the 343 species of Sedge Moths, the Nearctic fauna of 36 species represents approximately 10% of the total known world fauna. Most known species feed on various sedges or related plants, usually in marshy or stream side habitats, thus being one of the elements comprising semiaquatic and riparian ecosystems. North American species are not of economic significance but two other species (in England and New Zealand) are minor pests of forage crops. The revision includes descriptions of all 36 Nearctic species, with keys to genera and species, and illustrations of adults and morphological characters. One genus and 24 species and subspecies are described as new. The text includes host plant data for the world fauna of the family.

INSECTS AND PLANTS: PARALLEL EVOLUTION AND ADAPTATIONS, [Flora & Fauna Handbook No. 2], by Pierre Jolivet. 1986. 6 x 9 in, xi+197 pp. ISBN 0-916846-25-3. Paper \$14.95. Temporarily out of print.

A revised edition of this popular book is nearing completion.

THE POTATO BEETLES, by Richard L. Jacques, Jr. 1988. [Flora & Fauna Handbook no. 3]. 6 x 9 in, 144 pp., color illus. on cover. ISBN 0-916846-40-7. Paper \$19.95.

Species of the genus *Leptinotarsa* are well known phytophagous beetles, made infamous by the nearly cosmopolitan pest, the Colorado Potato Beetle. Although some species are restricted in their feeding to members of the plant family Solanaceae, others feed on species of other plant families. The interrelationship of these species is discussed in detail by the author. He has reviewed all of the North American species of the genus, and included keys to the genera of the tribe to which *Leptinotarsa* belong. A key to the species found in Canada, United States, and Mexico, is supported by descriptions and illustrations (some in full color) of each species found in the region. Distribution data and maps complete this section. A considerable amount of host plant data is presented and the life history of many species is given. The work includes a completely up-to-date review of recent literature on the subject, and a useful bibliography. Introductory chapters give the history of the Colorado Potato Beetle as a pest, and discuss host plant relationships. Several of the common host plants are described and illustrated. This book will serve as a guide for all of those interested in host plant biology, as well as an identification manual for those interested in the group.

THE PREDACEOUS MIDGES OF THE WORLD, by Willis W. Wirth and William L. Grogan. [Flora & Fauna Handbook No. 4] 6 x 9, xv + 160 pp. ISBN 0-916846-43-1. Paper \$29.50.

The family Ceratopogonidae includes about 5,000 described species of midges with quite diverse habits, including many blood-sucking forms that transmit important diseases of man and animals; species that suck haemolymph from caterpillars and other insects and may be of importance in biological control, and a large number of predators as adults and larvae that are important links in the food chains of aquatic organisms.

The classification of the tribe Ceratopogonini, the Predaceous Midges, has always been poorly understood because of the difficulty of finding good taxonomic characters. Recent collections, mainly from the Southern Hemisphere, have yielded ten new genera bringing the total genera in this tribe to 45, and their study using new characters and modern taxonomic approaches, has facilitated the construction of a workable taxonomic key to their identification. For each genus and subgenus there is presented a short taxonomic description, illustrations of the important taxonomic characters, and a checklist of the 851 described species of the World.

A CATALOG OF THE NEOTROPICAL COLLEMBOLA, by Jose A. Mari Mutt and Peter F. Bellinger. 1989. 6 x 9 in., xii + 237 pp. biblio. [Flora & Fauna Handbook no. 5] [ISBN 1-877743-00-3] Paper \$29.95 [Prepublication price \$24.95]

The Neotropical collembolan fauna is probably the most diverse in the world but it is also one of the least known. The geographical area covered by this catalog is the Neotropical Region in its widest sense plus all of Mexico, and includes such marginal areas as the Bahama Islands, Islas Malvinas (Falkland Islands), the Juan Fernandez archipelago, and Easter Island. The catalog lists 908 species distributed into 158 genera. The bibliography is complete thru July 1989.

A REVIEW OF THE GENERA OF NEW WORLD MYMARIDAE (HYMENOPTERA: CHALCIDOIDEA), [Flora & Fauna Handbook No. 6], by Carl M. Yoshimoto. 1989. 6 x 9 in, approx. viii + 304 pp. ISBN 1-877743-04-6. Cloth: Tentative \$33.60

The New World Mymaridae include 59 genera and subgenera of which 9 are described as new. Keys to the males and females of the New World genera are provided.

GENERAL ENTOMOLOGY

INSECTA MUNDI, edited by Michael C. Thomas, Quarterly, 8 1/2 x 11, ea. issue approx. 72 pp. ISSN 0749-6738. Subscription per volume: \$25.00 individuals; \$50.00 institutions. Individual numbers: \$12.50 each.

The systematics of insects of the world are treated in this journal, including new taxa, catalogs, and revisions. Book reviews, notes, and other current information is published as space permits. Write to the editor for information about publishing in this journal.

Still available:

Volume 1, 1985-1986.
Volume 2, number 1, mailed to subscribers April 22, 1988.
Volume 2, number 2, mailed September 26, 1988.
Volume 2, nos. 3 and 4, mailed March 27, 1989.
Volume 3, no. 1, mailed July 24, 1989.
Volume 3, no. 2, mailed.
Vol. 3, no. 3 and no. 4 are in press to be completed in 1989.
Volume 4, 1990 will be on schedule.

THE INSECT AND SPIDER COLLECTIONS OF THE WORLD, by Ross H. Arnett, Jr. and G. Allan Samuelson, assisted by J. B. Heppner, G. M. Nishida, J. C. Watt, and Robert E. Woodruff. 1986. 8 1/2 x 11 in, iii + 220 pp. ISBN 0-916846-30-X. Plastic comb binding \$19.95.

Included for the first time in one directory is a list and descriptions of public and private collections of the world. Of the 918 collections listed, 377 of the major collections are described in detail. These listings are arranged alphabetically by country, state/province, and city. Every country in the world is listed; those without known collections are indicated. The complete mailing address of each museum is cited and a four letter coden is assigned to each. This is followed, if the listing form was returned, by the names of the curators, the phone number of the director, and details about the size and contents of the collections. Data about the primary types and special collections are included.

Part II of the directory is a list and descriptions of 211 private collections arranged alphabetically by the owner's name. Each collection, with few exceptions, is registered with a public museum so these collections may be located in the future should the owner move or donate the collection to a public museum. A coden is assigned to each of these collections.

The volume is concluded by an alphabetical list of the codens used in the work, each coden a unique combination of letters for that collection alone. This list is also cross-referenced to variations of the codens used in other works, which will eliminate any confusion over this duplication. An index to taxa mentioned in the text, and an alphabetical list of curators are provided.

The use of this work and the codens (sometimes called acronyms) used for citing collections in taxonomic works is space saving. This standardized work provides a ready reference to all collections and is required by all insect and spider systematists.

THE FOLLOWING BOOKS WERE PUBLISHED BY E. J. BRILL, FLORA & FAUNA PUBLICATIONS DIVISION. These books are in stock in our warehouse.

LEPIDOPTERORUM CATALOGUS, FASCICLE 118, NOCTUIDAE, by Robert W. Poole. 1989. 8 1/2 x 11, 3 vols., xii+1314 pp. ISBN vol. 1, 0-916846-45-8, vol. 2, 0-916846-46-6, vol. 3, 0-916846-47-4. 3 vols. Cloth: complete, \$250.00.

The Noctuidae of the World, a family with numerous important agricultural pests, comprises about a third of the entire order Lepidoptera. This new catalog is the first complete catalog for the World. About 38,000 named species (including known synonyms) are listed alphabetically under each genus name in over 1,000 pages of text. Genera are also listed alphabetically, but subfamily affiliations are noted for each of the valid names to enable users to segregate genera by subfamily. Valid names are noted in boldface. Synonyms are listed for each genus and species; the species synonyms are also listed alphabetically among the valid names, thus enabling users to make two kinds of searches in the text as well as in the index.

The catalog provides citation data on all described names (other than infraspecific names), with references cited in the complete bibliography at the end. Reference is also made to more important papers on the biology, larvae, host plants, and illustrations for each species, again with full titles noted in the bibliography. The main host plants for each species, where known, are listed under each. Details of holotypes, where known, are also noted. The bibliography has entries for approximately 4,400 papers.

Numerous new combinations are included throughout the catalog and the author has proposed 96 new objective replacement names for junior homonyms, plus one new generic replacement name. The catalog is complete to the end of 1985.

This catalog will certainly be the main reference work for all Lepidopterists. Anyone needing bibliographic information, location of illustrations, host plant data, and many other items of information on world Noctuidae will find this work of ultimate use.

ADVANCES IN MYRMECOLOGY, edited by James C. Trager. 1988. 6 x 9 in., xxvii+551 pp., [ISBN 0-916846-38-5] Paper \$55.50.

This book (with an introduction by E. O. Wilson) treats many aspects of the study of ants. Many of the currently active research workers on ants have contributed to this collection of original articles on ants, bringing up-to-date aspects of their systematics, distribution, ecology, behavior, genetics, physiology, and biochemistry. The volume is dedicated to Professor George C. Wheeler, in recognition of his great contribution to the systematics of ant larvae, on the occasion of his 90th birthday. The lead article by Professor E. O. Wilson is followed by such well known authors as Professor Wheeler himself, Professor William L. Brown, Jr., Roy R. Snelling, C. S. Lofgren, M. S. Blum, Pierre Jolivet, and many others.

The volume is divided into six sections: Ant Systematics, Genetics and Evolution, Ecology and Behavior, Biochemistry and Physiology, Development, and Predators and Parasites. Each section contains original research articles as well as summaries of the current status of many subjects of myrmecology.

ADVANCES IN PARASITIC HYMENOPTERA STUDIES, edited by V. Gupta. 1988. 7 x 10, viii+546 pp. biblio., index, illus. cloth. ISBN 0-916846-50-4. Cloth \$69.95.

Recent research on the taxonomy, morphology, biology, host associations, biological control, literature resources, and rearing techniques pertaining to parasitic Hymenoptera is included in 43 chapters in this book. The book is divided into four sections which include 48 halftone plates and numerous line drawings, tables, and graphs.

Section I deals with the taxonomy and morphology of parasitic Hymenoptera. The advances made in the study of this subject during the 1980's are reviewed. Reviews of the higher classification, phylogeny, biosystematics, speciation, fossils, morphology of exocrine glands, and on morphometry and new morphological features are included. The general features of the chalcid fauna of Rumania and Australia are offered. On-going research on parasitic Hymenoptera in China is summarized in one chapter.

Section II deals with biology and host associations. General reviews on host recognition behavior, progeny and sex allocation, host relationships, host associations, dispersal behavior, parasitic relationships among fig wasps, and others, of several groups of parasitic Hymenoptera are presented. Studies on the *in vivo* and *in vitro* development of a braconid wasp and on interspecific competition among parasitic wasps round out the section.

Section III is devoted to biological control. The use of parasitic Hymenoptera in biological control in general and in Central America in particular, start off this section. Other chapters deal with the biology and use of sphecoid wasps in control of mole crickets, chalcidoid wasps and the control of American cockroach, parasitic Hymenoptera in the control of fruit pests, biotypes in biological control, and use of parasitic Hymenoptera in the control of pests of veterinary importance concludes this section.

Section IV deals with literature resources and rearing techniques. The more important literature on parasitic Hymenoptera is reviewed and an extensive and very useful bibliography is given. This is followed by rearing techniques used for dryinid parasites, use of electrophoresis for monitoring purity of laboratory colonies of exotic parasitoids, and parasite and predator rearing facilitated by irradiation are offered.

The book is based on the information presented at the II Conference on the Taxonomy and Biology of Parasitic Hymenoptera, held in Gainesville, Florida, November 19-21, 1987.

CATALOG OF THE HETEROPTERA, OR TRUE BUGS, OF CANADA AND THE CONTINENTAL UNITED STATES, edited by Thomas J. Henry and Richard C. Froeschner. 7 x 10 in., xx+958 pp. ISBN 0-916846-44-X. Cloth \$58.50

This is the first catalog of all of the North American bugs since the Van Duzee (1917) "Catalogue of the Hemiptera of America North of Mexico." It treats all 3,834 species in the 45 families known to occur in the area covered. This is an increase of 2,209 species since the last catalog.

Each of the 45 families includes a short description of the group, their general habits, and the major literature pertaining to it. This is followed by the catalog of the species and higher categories. The distribution of each species by state or province is followed by a summary of the localities outside of North America where the species occurs.

The catalog will be useful to all biologist concerned with the names and literature on the bugs as many of these are of great economic and scientific importance. Because of the numerous references, the book will be needed by all libraries.

**ALSO AVAILABLE FROM:
SANDHILL CRANE PRESS, INC**

FLORIDA BUTTERFLIES, by Eugene J. Gerberg and Ross H. Arnett, Jr. 1989. 5 1/2 x 8 1/2 in., 96 p., 137 full color illus. Paper: \$9.95.

The most interesting butterfly fauna of the United States is that of Florida where these beautiful tropical animals may be seen flying throughout the entire year. All 164 species of Florida butterflies and skippers, plus several strays, are recorded in this book, most in full color, with descriptions and illustrations of all of the breeding butterflies.

DRAGONFLIES of the Florida Peninsula, Bermuda and the Bahamas, by Sidney W. Dunkle. 1989. 6 x 9, 144 p., 129 color plates. Paper: \$12.95.

For the first time, it is possible for the layman to identify the colorful dragonflies that are such a conspicuous part of the waterside scene in Florida and nearby islands, covering all 94 dragonfly species known from this area. With the aid of the color photos and field glasses, all can be identified in the field, as in bird or butterfly watching. Full details for the study of these interesting animals are included in the text.

■ *Famous Florida author describes his adventures observing nature:*

IN SEARCH OF REPTILES AND AMPHIBIANS, by Richard D. Bartlett. 1988. 6 x 9, xii + 363 p., 40 color illus. Cloth: \$24.95; paper: \$19.95.

You will experience the thrills of an accomplished naturalist's quest for snakes, turtles, lizards, frogs, and toads when you go with the author on his travels throughout the United States, Mexico, Central America, and northern South America. This superb observed sees not only his special friends, the reptiles and amphibians, but also the variety of plants and animals that are a necessary part of each habitat he describes.

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"Should be in every entomological library, and also in the private offices of individual entomologists who deal with a variety of insects." *Bulletin of the ESA*

■ *Reprint of a classic book*

BUTTERFLIES OF CALIFORNIA - By John A. Comstock, 1927, with introduction by Thomas C. Emmel and John F. Emmel, 1989. 6 x 9 in. 334 pp., 63 pl. Cloth \$24.50.

This edition includes a new introduction, a biography of Comstock, along with a list of his published papers. A particularly useful feature is the dual-column checklist to species treated by Comstock, showing the current scientific name in the alternate column. Considerable information is provided by Comstock on life histories and biology of the species, together with numerous drawings of the immature stages. The book is well bound in a strong leather-like binding similar to the original book.

■ *Monumental work now complete:*

CATALOG OF THE DIPTERA OF THE AUSTRALIAN AND OCEANIAN REGIONS, edited by Neal L. Evenhuis. 1989. [August 31, 1989] 7 x 10 in., 1156 pp. [ISBN 0-930897-37-4]. Cloth: \$100.00.

This catalog is the first comprehensive listing of the genera and species of flies from Australasian and Oceanian Regions and marks the completion of the zoogeographical cataloging of the Diptera worldwide. The geographical coverage includes Australia, New Guinea, New Zealand, and the Pacific Islands from Hawaii, Guam, and the eastern Indonesian Archipelago to French Polynesia and Easter Island. One appendix lists the Diptera from Antarctica and the many subantarctic islands; another appendix lists the fossil Diptera from the Australian and Oceanian Regions.

NOTICE

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There are actually many more than 40,000 species of chrysomelid beetles, including the many undescribed species living in the World. This work results from the personal observations of the author in both the Old and the New World Tropics. About 20,000 data cards, information compiled from the literature, were used to assemble this book. The text is arranged by family and genus, with the host plants for each genus listed. A comprehensive bibliography of major works concludes the volume.

ANTS AND PLANTS: An Example of Coevolution, by Pierre Jolivet

This is the first English edition of an acclaimed (by *Science* magazine) French work, now thoroughly revised. It is packed with information on this subject of interest to both entomologists and botanists. The book was written from the first-hand observations of the author, integrated with all of the literature on the subject through 1989. Many illustrations and charts enhance the work. The extensive bibliography makes this book a valuable reference work.

BEETLES OF NORTHEASTERN NORTH AMERICA, by N. M. Downie, edited by Ross H. Arnett, Jr.

This book is now complete and will be published during 1990. All of the families, genera, and species of beetles known to occur in North America east of the Mississippi River and north of the Potomac River are included in this book. Each taxon is keyed out and described. Many of the +7400 species are illustrated. This is the first book to cover the area as a complete manual. It updates and enhances Blatchley (1910). More information will be sent to our clients during the year as the work progresses.

AMERICAN BEETLES, A Handbook of the Coleoptera of America, North of Mexico, by Ross H. Arnett, Jr.

Work is progressing on this book to replace "Beetles of the United States." It will be published in 1991.

INSECT LIFE, by Ross H. Arnett, Jr., Revised Edition.

The second, or revised edition of this popular book, first published by Prentice-Hall will be ready in 1990.

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(continued from back cover)

Lepidopterorum Catalogus (New Series) Fascicle 118: Noctuidae of the World, Parts 1 - 3, ca. 1300 pages in 3 parts (2 text parts, bibliography and index), by Dr. Robert W. Poole. Cloth: complete, \$250.00. (also available as subscription). Volume 1 / ISBN 0-916846-45-8; Volume 2 / ISBN 0-916846-46-6; Volume 3 / ISBN 0-916846-47-4.

This fascicle of the new series, *Lepidopterorum Catalogus*, covers about 40% of the entire order Lepidoptera, the large worldwide family Noctuidae. Numerous important pests and other well-known species are in the family, including armyworms, the corn earworm, the Egyptian cotton leafworm, the European cabbage worm, as well as the thousands of innocuous species. About 50,000 named species and synonyms are listed, including all names published up to 1985.

The text of over 1,000 pages lists all named taxa of Noctuidae (other than invalid infraspecific names) alphabetically by genus and species, with valid names in boldface. Synonyms are listed for each genus and species, and species synonyms are also listed alphabetically among the valid species names. Each generic name is also referred to its current subfamily placement, and a general index is also provided. Original literature citations are given for all names, as well as the citations noted in the text to papers showing illustrations of the species, those having biological data, larval data, and host data for nomenclatural reference; citations are given in full in the terminal bibliography. Details of generic nomenclatural status and the type for each species are also indicated.

This catalog will certainly be the main reference work for all noctuid workers and others who need a reference on the named species of world Noctuidae. It is the first comprehensive world catalog ever produced for the entire family.

The Potato Beetles, The Genus *Leptinotarsa* in North America (Flora & Fauna Handbook No. 3), by Richard L. Jacques, 112 pages, ill., \$14.95. ISBN 0-916846-40-7.

Species of the genus *Leptinotarsa* (Coleoptera: Chrysomelidae) are well known phytophagous beetles, made infamous by the nearly worldwide pest, the Colorado Potato Beetle. Although some species are restricted in their feeding to members of the plant family Solanaceae, others feed on species of other plant families. The interrelationship of these species is discussed in detail. The author has reviewed all of the North American species of the genus, and includes keys to the genera of the tribe to which *Leptinotarsa* belong. A key to the species found in Canada, the United States, and Mexico, is supported by descriptions and illustrations (some in full color) of each species found in the region. Distribution data and maps complete this section. A considerable amount of host plant data is presented and the life history of many species is given. The work includes a completely up-to-date review of recent literature on the subject, and a useful bibliography. Introductory chapters give the history of the Colorado Potato Beetle as a pest and discuss host plant relationships. Several of the common host plants are described and illustrated. This book will serve as a guide for all of those interested in host plant biology, as well as an identification manual for those interested in the group.

Catalog of the Heteroptera, or True Bugs, of Canada & the Continental United States, edited by Thomas J. Henry & Richard C. Froeschner. 880 pages, \$58.50 (cloth). ISBN 0-916846-44-X.

This is the first catalog of all the North American bugs since the Van Duzee (1917) *Catalogue of the Hemiptera of America north of Mexico*. It treats all 3,834 species in the 45 families known to occur in the area covered which is an increase of 2,209 species since Van Duzee's standard work.

The introduction contains a brief historical review of the Heteroptera workers, mention of a few of the larger, more comprehensive treatments of bugs, discusses the unsettled question of what order name to use (Hemiptera or Heteroptera), gives an outline of the families of Heteroptera of the world, and provides a table with a breakdown of the number of bug species by family. Each of the 45 families begins with a brief introduction that includes a short description of the group, their general habits, and the major literature pertaining to it. This is followed by the catalog of species and higher categories.

Under each species is cited the original description and type locality, all generic combinations and synonyms mentioned in the North American literature, and a list of misspellings and misidentifications. The distribution of each species by state or province is followed by a summary of the localities outside of North America where the species occurs.

The catalog is designed for easy use of specialists and non-specialists alike, and therefore will be useful to all entomologists, and any biologist concerned with the names and literature on the bugs, as many of these are of great economic and scientific importance. Because of the numerous references, the book will be needed by all entomological institutions and libraries.

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The most interesting butterfly fauna of the United States is that of Florida where these beautiful tropical animals may be seen flying throughout the entire year. All 164 species of Florida butterflies and skippers, plus several strays, are recorded in this book, most in full color, with descriptions and illustrations of all of the breeding butterflies.

DRAGONFLIES of the Florida Peninsula, Bermuda and the Bahamas, by Sidney W. Dunkle. 1989. 6 x 9, 144 p., 129 color plates. Paper: \$12.95.

For the first time, it is possible for the layman to identify the colorful dragonflies that are such a conspicuous part of the waterside scene in Florida and nearby islands, covering all 94 dragonfly species known from this area. With the aid of the color photos and field glasses, all can be identified in the field, as in bird or butterfly watching. Full details for the study of these interesting animals are included in the text.

ADVANCES IN PARASITIC HYMENOPTERA RESEARCH, edited by V. Gupta. 7 x 10, viii + 546 p. biblio., index, illus. Cloth: \$69.95

Recent research on the taxonomy, morphology, biology, host associations, biological control, literature resources, and rearing techniques pertaining to parasitic Hymenoptera. The book is based on the information presented at the II Conference on the Taxonomy and Biology of Parasitic Hymenoptera, recently held in Gainesville, Florida.

ADVANCES IN MYRMECOLOGY, edited by James C. Trager. 1988. 6 x 9 in., xxvii + 551 pp. Paper: \$55.50

This book (with an introduction by E. O. Wilson) treats many aspects of the study of ants, bringing up-to-date their systematics, distribution, ecology, behavior, genetics, physiology, and biochemistry.

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A CATALOG OF THE NEOTROPICAL COLLEMBOLA, by Jose A. Mari Mutt and Peter F. Bellinger 1989. 6 x 9 in., 237 p. Paper: \$29.95

The geographical area covered by this catalog of the Collembola (Springtails and relatives) is the Neotropical Region in its widest sense, plus all of Mexico, and marginal areas such as the Bahama Islands, Islas Malvinas (Falkland Islands), the Juan Fernandez archipelago, and Easter Island. The catalog lists 908 species distributed into 158 genera. It is complete through February, 1989.

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