

Revision of Anoplophora

(Coleoptera: Cerambycidae)



Steven W. Lingafelter
E. Richard Hoebeke

Entomological Society of Washington

Revision Of The Genus Anoplophora Coleoptera Cerambycidae

Jud G. Isebrands, Jim Richardson



Revision Of The Genus Anoplophora Coleoptera Cerambycidae:

Revision of the Genus Anoplophora (Coleoptera: Cerambycidae) Steven W. Lingafelter, E. Richard Hoebeke, 2002 Of taxonomic changes Biology of Anoplophora Historical review of Anoplophora and its tribal assignment Systematics Checklist of Anoplophora species Key to species of Anoplophora Species accounts Species designated as incertae sedis Species transferred from Anoplophora *Cerambycidae of the World* Qiao Wang, 2017-01-06 Wang has gathered contributions from an impressive cohort of the world's most respected experts on longhorned beetles Chapters review both basics of cerambycid taxonomy morphology and behavior feeding reproduction and chemical ecology as well as more applied concerns such as laboratory rearing pest control and bio security Overall this volume is a valuable contribution to the literature as a one stop shop for readers seeking a comprehensive overview of longhorned beetles It represents a tremendous effort on the part of Wang and the authors and has resulted in a much needed update to the literature This volume is the only work of its kind available at this time and is a valuable addition to the library of any scientist studying wood boring beetles Ann M Ray Biology Xavier University Cincinnati Ohio in The Quarterly Review of Biology Volume 94 2019 There are more than 36 000 described species in the family Cerambycidae in the world With the significant increase of international trade in the recent decades many cerambycid species have become major plant pests outside their natural distribution range causing serious environmental problems at great cost Cerambycid pests of field vine and tree crops and of forest and urban trees cost billions of dollars in production losses damage to landscapes and management expenditures worldwide *Cerambycidae of the World Biology and Pest Management* is the first comprehensive text dealing with all aspects of cerambycid beetles in a global context It presents our current knowledge on the biology classification ecology plant disease transmission and biological cultural and chemical control tactics including biosecurity measures from across the world Written by a team of global experts this book provides an entrance to the scientific literature on Cerambycidae for scientists in research institutions primary industries and universities and will serve as an essential reference for agricultural and quarantine professionals in governmental departments throughout the world **Chrysomeloidea I (Vesperidae, Disteniidae, Cerambycidae)**, 2020-11-04 The aim of Catalogue of Palaearctic Coleoptera is to provide a tool that addresses the most urgent needs 1 a complete list of available names of taxa occurring in the Palaearctic Region with authors and publications dates 2 a list of references to primary publications 3 distributions of the species and subspecies Thus the Catalogue is expected to respond to questions related to biodiversity and to increase the badly needed nomenclatural stability The present updated and revised Catalogue is a collective international work by 12 authors from Austria Belgium China Korea Japan and Russia It includes about 6453 species names of 913 genera The general structure and the taxonomic distributional and bibliographical information of the first edition of the Catalogue are followed with minor changes Proceedings of the Entomological Society of Washington, 2022 List of members in v 1 3 5 14 **Forest Entomology** William Ciesla, 2011-03-08 Insects are the

most abundant and diverse organisms that inhabit our planet and are found in all the world's forest ecosystems. Many feed and/or breed on parts of trees. Some perform important functions such as pollination or break down of dead vegetation. Others weaken, deform or kill trees and compete with humans for the many goods and services that trees and forests provide. *Forest Entomology: A Global Perspective* examines forest insects in a global context and reviews their dynamics, interactions with humans and methods for monitoring and management of species that damage forests. Also provided are 235 profiles of forest insects worldwide. A series of tables provides summaries of the distribution and hosts of many more species. Included are those that damage forests, others that are simply curiosities, and some that are beneficial. This book is designed as a reference for students, practicing foresters, and forest health specialists, especially for those who work internationally or are concerned with species that have the potential to expand their ranges via international trade, travel, or environmental changes.

Use of Microbes for Control and Eradication of Invasive Arthropods Ann Hajek, Travis Glare, Maureen O'Callaghan, 2008-10-21. This is a diverse presentation about the use of arthropod-specific pathogens for control and eradication of invasive arthropod species. Basic concepts supporting use of pathogens for microbial control are covered as well as societal and environmental concerns.

Insect Biodiversity Robert G. Foottit, Peter H. Adler, 2017-07-18. Volume One of the thoroughly revised and updated guide to the study of biodiversity in insects. The second edition of *Insect Biodiversity: Science and Society* brings together in one comprehensive text contributions from leading scientific experts to assess the influence insects have on humankind and the earth's fragile ecosystems. Revised and updated, this new edition includes information on the number of substantial changes to entomology and the study of biodiversity. It includes current research on insect groups, classification, regional diversity, and a wide range of concepts and developing methodologies. The authors examine why insect biodiversity matters and how the rapid evolution of insects is affecting us all. This book explores the wide variety of insect species and their evolutionary relationships. Case studies offer assessments on how insect biodiversity can help meet the needs of a rapidly expanding human population and also examine the consequences that an increased loss of insect species will have on the world. This important text explores the rapidly increasing influence on systematics of genomics and next-generation sequencing. Includes developments in the use of DNA barcoding in insect systematics and in the broader study of insect biodiversity, including the detection of cryptic species. Discusses the advances in information science that influence the increased capability to gather, manipulate, and analyze biodiversity information. Comprises scholarly contributions from leading scientists in the field. *Insect Biodiversity: Science and Society* highlights the rapid growth of insect biodiversity research and includes an expanded treatment of the topic that addresses the major insect groups, the zoogeographic regions of biodiversity, and the scope of systematics approaches for handling biodiversity data.

Russian Entomological Journal, 2004. *Biodiversity, biogeography and nature conservation in Wallacea and New Guinea* Dmitry Telnov, 2015-05-11. **Agriculture, Rural Development, Food and Drug Administration, and Related Agencies**

Appropriations for 2012 United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 2011 *Poplars and Willows* Jud G. Isebrands, Jim Richardson, 2014-02-12 Poplars and willows form an important component of forestry and agricultural systems providing a wide range of wood and non wood products This book synthesizes research on poplars and willows providing a practical worldwide overview and guide to their basic characteristics cultivation and use issues problems and trends Prominence is given to environmental benefits and the importance of poplar and willow cultivation in meeting the needs of people and communities sustainable livelihoods land use and development Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations for 2004 United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 2011 **Memoirs of the Entomological Society of Washington** ,1939 **Australian Longhorn Beetles (Coleoptera: Cerambycidae) Volume 1** Adam Slipinski, Hermes Escalona, 2013-09-20 Longhorn Beetles Cerambycidae are one of the most easily recognised groups of beetles a family that worldwide encompasses over 33 000 species in 5 200 genera With over 1 400 species classified in 300 genera this is the sixth largest among 117 beetle families in Australia These beetles often attack and kill living forest or orchard trees and develop in construction timber like European House borer introduced to WA causing serious damages Virtually all Cerambycidae feed on living or dead plant tissues and play a significant role in all terrestrial environments where plants are found Larvae often utilise damaged or dead trees for their development and through feeding on rotten wood form an important element of the saproxylic fauna speeding energy circulation in these habitats Many species are listed as quarantine pests because of their destructive role to the timber industry This volume provides a general introduction to the Australian Cerambycidae with sections on biology phylogeny and morphology of adult and larvae followed by the keys to the subfamilies and an overview of the 74 genera of the subfamily Lamiinae occurring in Australia All Lamiinae genera are diagnosed described and illustrated and an illustrated key to their identification is provided A full listing of all included Australian species with synonymies and bibliographic citations is also included 田口 隆, 2009 3 127 **Biogeography** , 2006 **The Zoological Record** , 2003 Catalogue of Palaearctic Coleoptera Ivan Löbl, 2003 This is the sixth volume of a comprehensive series which covers about 100 000 species of Coleoptera known to occur in the Palaearctic Region The information provided for each species is as follows primary taxonomic information of all available names in the genus and species levels published by the end of 1999 the taxonomic information below subfamily organized alphabetically and the type species of genera and subgenera including synonyms Distributional data of species and subspecies is given per country Detailed distributional information for strict endemics is provided and introduced species are indicated The series is a collective work of about one hundred coleopterists from Europe Japan America and Australia *Entomology Abstracts* , 2001 **Morphology and Systematics** Richard A.B. Leschen, Rolf

G. Beutel, 2014-04-01 This book is the third volume in the Handbook of Zoology series which treats the systematics and biology of Coleoptera. With approximately 350 000 described species, Coleoptera are by far the most species-rich order of insects and the largest group of animals of comparable geological age. This third Coleoptera volume completes the Morphology and Systematics volumes with 43 chapters and covers one of the largest radiations of beetles: the mainly plant-feeding Phytophaga, with information on world distribution, biology, morphology of all life stages, including anatomy, phylogeny, and comments on taxonomy.

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