

THE  
HAWKMOTHS  
OF THE  
WESTERN  
PALAEARCTIC



A.R. PITTAWAY

# The Hawkmoths Of The Western Palaearctic

**Niels P. Kristensen, Andreas Schmidt-  
Rhaesa**



## **The Hawkmoths Of The Western Palaearctic:**

*The Hawkmoths of the Western Palaearctic* A.R. Pittaway, 2023-11-27 A detailed study of 57 sphingid species occurring in Europe Ireland to the Urals North Africa and the Middle East placing particular emphasis on ecological factors governing population and distribution The colour plates depict adults of all species larvae of 40 species and 5 subspecies and 13 types of habitat A major work of interest to lepidopterists and conservationists **Hawkmoths of Australia** Maxwell

Moulds, James Tuttle, David Lane, 2020-01-20 Hawkmoths are large charismatic insects with highly variable and colourful larvae Some species are specialised in their habitat preferences but others are widespread and often encountered in gardens However little is known about most species and associating the adults with their larvae has previously been difficult or impossible *Hawkmoths of Australia* allows identification of all of the Australian hawkmoths for the first time and treats species found on mainland Australia Tasmania and all offshore islands within Australian limits It presents previously undescribed life histories of nearly all species and provides a comprehensive account of hawkmoth biology including new parasitoids and their hawkmoth hosts Detailed drawings and photographs show the external and internal morphology of adults and immatures and eggs larval instars and pupa Keys are provided for last instar larvae and pupae of the 71 species that the authors have reared The book is concluded by a glossary appendices to parasitoids and larval foodplants an extensive reference list with bibliographical notes and a comprehensive index The wealth of new information in this book makes it an essential reference for anyone interested in these moths *Hawkmoths of Australia* is Volume 13 of the Monographs on Australian Lepidoptera Series

*The Book of Caterpillars* David G. James, 2018-02-14 For the lover of all things lepidopterous *The Book of Caterpillars* is a beautifully curated collection and guide to 600 species from around the globe The American Biology Teacher While most of us picture caterpillars as cute fuzzballs munching on leaves there is much more to them than we imagine A caterpillar's survival hinges on finding enough food and defending itself from the array of natural enemies lined up to pounce and consume And the astounding adaptations and strategies they have developed to maximize their chances of becoming a butterfly or moth are only just beginning to be understood from the Spicebush Swallowtail caterpillar that resembles a small snake to the Eastern Carpenter Bee Hawkmoth caterpillar that attempts to dissuade potential predators by looking like a diseased leaf *The Book of Caterpillars* unveils the mysteries of six hundred species from around the world introducing readers to the complexity and beauty of these underappreciated insects With the advent of high quality digital macrophotography the world of caterpillars is finally opening up The book presents a wealth of stunning imagery that showcases the astonishing diversity of caterpillar design structure coloration and patterning Each entry also features a two tone engraving of the adult specimen emphasizing the wing patterns and shades as well as a population distribution map and table of essential information that includes their habitat typical host plants and conservation status Throughout the book are fascinating facts that will enthrall expert entomologists and curious collectors alike A visually

rich and scientifically accurate guide to six hundred of the world's most peculiar caterpillars this volume presents readers with a rare detailed look at these intriguing forms of insect life      Western Palaearctic Zygaenidae Clas M.

Naumann, Gerhard M. Tarmann, W. Gerald Tremewan, 2023-07-03 A complete handbook providing an extensive introduction to the biology ecology and behaviour of the Zygaenidae The introduction provides detailed information on zygaenid systematics and phylogeny life cycles morphology zoogeography and palaeontology genetics and individual variation ecology and behaviour conservation collecting and breeding techniques In the systematic part of the book the 115 species of western Palaearctic Zygaenidae currently contained in the three subfamilies Procrinae Chalcosiinae and Zygaeninae are treated Each species is briefly described followed by differentiating characters of similar species individual and geographical variation distribution with maps for each species ecology behaviour early instars and larval foodplants Colour plates illustrate all species and the male and female genitalia of the Procrinae are also figured A bibliography provides references to the most relevant literature for those interested in current research      Insect Sex Pheromone Research and Beyond Yukio

Ishikawa, 2020-03-19 This book provides a complete overview of cutting edge research on insect sex pheromones and pheromone communication systems The coverage ranges from the chemistry biosynthesis and reception of sex pheromones to the control of odor source searching behavior and from molecules to the application of research findings to robotics The book both summarizes the progress of studies conducted using *Bombyx mori* and several groups of moths and reviews sex pheromones of some non lepidopteran insect groups of agricultural importance Attention is drawn to recent findings on elaborate neural information processing in the brain in male moths and to the importance of olfactory receptors specifically tuned to sex pheromone molecules Featuring contributions from leading experts on the topic this book will be a unique and valuable resource for researchers and students in the fields of entomology chemical ecology insect physiology and biochemistry evolution biomimetics and bioengineering In addition to researchers general insect lovers will find the book fascinating for its descriptions of the marvelous abilities of insects and the underlying mechanisms involved      **Tropical**

**Forest Canopies: Ecology and Management** K.E. Linsenmair, Andrew Davis, B. Fiala, M.R. Speight, 2013-03-14 Almost half of all life on earth may exist in the world's forest canopies They may also play a vital role in maintaining the planet's climate yet they remain largely unexplored owing to difficulties of access They are renowned for their great diversity and role in forest functioning yet there are still great gaps in the understanding of this last biological frontier This seminal book shows how canopy science is now in a position to answer many of the outstanding questions among which are some of the most pressing environmental issues society is presently facing It represents a major summary of the current understanding of canopy ecology and maps a path forward into a greater understanding of tropical forest ecology and management at a time when the very future of this ecosystem is threatened by humanity's actions      **Volume 1: Evolution, Systematics, and**

**Biogeography** Niels P. Kristensen, Andreas Schmidt-Rhaesa, 2013-02-06 Covering 100 years of zoological research the

Handbook of Zoology represents a vast store of knowledge Handbook of Zoology provides an in depth treatment of the entire animal kingdom covering both invertebrates and vertebrates It publishes comprehensive overviews on animal systematics and morphology and covers extensively further aspects like physiology behavior ecology and applied zoological research Although our knowledge regarding many taxonomic groups has grown enormously over the last decades it is still the objective of the Handbook of Zoology to be comprehensive in the sense that text and references together provide a solid basis for further research Editors and authors seek a balance between describing species richness and diversity explaining the importance of certain groups in a phylogenetic context and presenting a review of available knowledge and up to date references New contributions to the series present the combined effort of an international team of editors and authors entirely published in English and tailored to the needs of the international scientific community Upcoming volumes and projects in progress include volumes on Annelida Volumes 1 3 Bryozoa Mammalia Miscellaneous Invertebrates Nannomecoptera Neomecoptera and Strepsiptera and are followed later by fishes reptiles and further volumes on mammals

**Background** The renowned German reference work Handbook of Zoology was founded in the 1920 s by Professor Willi Kuenthal in Berlin and treated the complete animal kingdom from single cell organisms to mammals in eight thematic volumes Volume I Protozoa Porifera Colenteratea Mesozoa 1925 Volume II Vermes 1933 34 Volume III Arthropoda ex Insecta 1927 1932 Volume IV Arthropoda Insecta Volume V Solenogastres Mollusca Echinoderma 1925 Volume VI Pisces Amphibia 1930 Volume VII Reptilia Aves 1931 Volume VIII Mammalia The Volumes IV Arthropoda Insecta and VII Mammalia continued publication into the present with the most recent contributions in English language Adapting to the accelerating speed of scientific discovery in the past decades the Handbook of Zoology entered a next phase in 2010 In the new edition of the Handbook of Zoology the original eight thematic volumes gave way for smaller and more flexible groupings that reflect the current state of phylogenetic knowledge All subsequent volumes were published in print as well as e book format The Handbook of Zoology is additionally offered as a database the Handbook of Zoology Online which can easily be searched and rapidly updated Original Handbook material ca 28 000 pages has been reordered along taxonomic instead of bibliographical categories and forms the historical basis of this Online Reference Work As a living Online Reference the content is continuously updated and new content added The material can be accessed through taxonomic and subject categories as well as free text with a diversity of linking and search options Faster publication times through online first publication reference and cross linking and make the Handbook of Zoology highly attractive to both authors and users

**Population Dynamics**

Naomi Cappuccino, Peter W. Price, 1995-09-01 An understanding of the dynamics of populations is critically important to ecologists evolutionary biologists wildlife managers foresters and many other biologists This edited treatise brings together the latest research on how populations fluctuate in size the factors that drive these changes and the theories explaining how populations are regulated The book also includes specific chapters dealing with insects of economic importance *Tropical*

*Forest Canopies: Ecology and Management* Karl-Eduard Linsenmair, 2001

**Colour Identification Guide to Caterpillars of the British Isles. Macrolepidoptera** Jim Porter, 2013-01-21 This is the first comprehensive photo illustrated guide to the caterpillars of butterflies and macro moths The book illustrates over 850 different species or about 95% of resident extinct regular or irregular immigrant species to the British Isles All specimens are photographed in natural situations upon the relevant foodplants including many varieties indigenous to continental Europe Many of the species have never been illustrated as caterpillars before either by artwork or by photography This work has received unreserved support from the best and most competent entomologists Though the book illustrates British species it is most valuable for lepidopterists all over Europe and especially in North and Central Europe Never before have so many superb colour photographs of Lepidoptera been brought together in a book After Preface Acknowledgements Introduction and List of larvae required for photographs the systematic part with descriptions of the species follows The text is for each species divided into the following chapters Larva with description Foodplant Habits incl information on how to breed the species The book should appeal to anyone with an interest in European Macrolepidoptera

**Pests of Ornamental Trees, Shrubs and Flowers** David V. Alford, 2012-12-31 Ornamental trees shrubs and flowers have always been extremely popular and in large demand Whether in gardens or parks common usage of alpine bedding plants cacti cut flowers house plants and pot plants as well as herbaceous plants ornamental grasses shrubs and trees makes a definitive volume on their pests of essential value to entomologists and plant scientists The fully revised and updated second edition of Pests of Ornamental Trees Shrubs and Flowers follows up the successful previous edition with coverage of many new pests and highly detailed color photographs The book opens with a review of the main features of insects mites and other major pest groups Each major order and family of pests is considered in turn with details of their status host range world distribution diagnostic features and biology Descriptions of the characteristic damage caused are also given Contains coverage of more than 60 new pests and nearly 90 additional color photographs Discusses principles of pest control of ornamental plants followed by sections on the various pests

*Annotated List of the Lepidoptera of Alberta, Canada* Greg Pohl, Gary Anweiler, Christian Schmidt, Norbert Kondla, 2010-03-05 This checklist of the Lepidoptera butterflies and moths of Alberta lists 2367 species reported to occur in the province as well as 138 species whose occurrence in Alberta is probable Each species entry includes adult flight time and distribution status in the Cordilleran Boreal and Grasslands ecozones as well as references to taxonomic works and to the literature and public collection sources of the records Detailed notes on taxonomy nomenclature distribution habitat and biology are given for 1524 of the listed species An additional section provides details on 171 species erroneously reported from Alberta in previous works The authors hope it will be a useful resource for anyone carrying out species level work on Lepidoptera in western Canada or taxonomic work on Lepidoptera in general An introductory section provides a general overview of the order Lepidoptera and the natural regions of Alberta and the history and current state of knowledge of

Alberta Lepidoptera Each of the 63 families and selected subfamilies occurring in Alberta is briefly reviewed with information on distinguishing features general appearance and general biology The list is accompanied by an appendix of proposed nomenclature changes consisting of revised status for 25 taxa raised from synonymy to species level and new synonymy for 20 species level and one genus level taxa here considered to be subjective synonyms with resultant revised synonymy for one taxon and formalization of seven new combinations

**Encyclopedia of Entomology** John L. Capinera, 2008-08-11 This text brings together fundamental information on insect taxa morphology ecology behavior physiology and genetics Close relatives of insects such as spiders and mites are included

**The Biology of Death's Head Hawkmoths, Lepidopteran Kleptoparasites of Honey Bees** Ian J. Kitching, 2006

Bibliography of Agriculture with Subject Index, 1993-11

*The Lepidoptera of Europe* Ole Karsholt, Józef Razowski, 2023-11-13 The first list to cover the entire European fauna of butterflies and moths since the famous Staudinger Rebel Catalogue which was published as long ago as in 1901 A large number of European specialists have been working on the family subfamily treatments and the list has been checked by leading experts in the national faunas The higher classification used in the checklist is in accordance with the most recent research as presented in the treatment of Lepidoptera in the series Handbook of Zoology Hopefully the list will lead to uniformity in the systematics and nomenclature used in European lepidopterology Besides being a checklist The Lepidoptera of Europe also indicates in table form in which of the European countries each species has been recorded The occurrence is indicated for the following countries regions Albania Austria Belgium Bulgaria Corsica Czech Republic Denmark Estonia Finland France Germany Great Britain Greece Hungary Iceland Ireland Italy Latvia Lithuania the Netherlands Norway Poland Portugal Romania Sardinia Sicily the European part of the former Soviet Union apart from Estonia Latvia and Lithuania Spain Sweden Switzerland the European part of Turkey and the former Yugoslavia As the checklist has been under preparation since the mid 1980 s some of the recent changes of the European borders could not be taken into account The Lepidoptera of Europe contains more than 8 300 species known to occur in Europe and the distributional tables have approximately 74 000 records The Lepidoptera of Europe will be an indispensable tool for anyone working with the European fauna of any group of Lepidoptera The book is published in a limited edition of only 800 copies

The Entomologist's Record and Journal of Variation James William Tutt, 2003

**The Entomologist's Monthly Magazine**, 1997

*Entomologica Fennica*, 1993 The journal will publish principally Finnish entomological investigations on ecology faunistics behavior and systematics of insects and other terrestrial arthropods

*The Naturalist*, 1992

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