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**The Dryinidae and Embolemidae
(Hymenoptera: Chrysidoidea)
of Fennoscandia and Denmark**



by

M. Olmi

E. J. Brill

Leiden - New York - Köln

Dryinidae And Embolemidae Hymenoptera Chrysidoidea Of Fennoscandia

Anders N. Nilsson, Morgens Holmen



Dryinidae And Embolemidae Hymenoptera Chrysidoidea Of Fennoscandia:

The Dryinidae and Embolemidae (Hymenoptera:Chrysidoidea) of Fennoscandia and Denmark, 1994 **The Dryinidae and Embolemidae (Hymenoptera: Chrysidoidea) of Fennoscandia and Denmark** M. Olmi, 2023-08-28 This volume deals with the taxonomy and biology of the Dryinidae and Embolemidae Hymenoptera Chrysidoidea of Fennoscandia and Denmark These are parasitoids of leafhoppers and planthoppers Homoptera Auchenorrhyncha The first part of the book examines general aspects of morphology biology natural enemies economic importance fossils evolution and affinities The second part deals with the classification of the species living in Fennoscandia and Denmark with keys descriptions geographic distribution hosts and bionomics The knowledge of the taxonomy and biology of the Dryinidae is important for biological control projects The book is finely illustrated with 60 original drawings and 32 watercolours **Parasitoid**

Wasps of South East Asia Buntika A. Butcher, Donald L. J. Quicke, 2023-12-22 Parasitoid wasps are cosmopolitan numerous and enormously diverse with probably one million or more species worldwide most of which occur in the moist tropics Their ecological importance is enormous although perhaps most evident in their major roles in the control of insect pest populations In natural ecosystems they are integral in regulating populations of a vast number of insects and therefore are key players in terrestrial food webs Knowledge of their biology is still very poor because the current state of taxonomy is still in its infancy in most parts of the world In this book we provide an overview of the more than 30 families of parasitoid wasps that occur in the 11 countries in South East Asia Particular emphasis is given to those most commonly encountered and reared as well as to those used in biological control programmes Outlines of the morphology biology ecology and behaviour of each family as well as of various important subfamilies are presented The current state of taxonomy in the region is summarised Other chapters cover basic biology behaviour morphological terminology phylogeny and methods of specimen collecting preparation and rearing with particular relevance to the tropics Modern molecular approaches to speeding taxonomic description of hyperdiverse taxa are considered in depth All groups are illustrated with colour photographs This book will be of value to professional entomologists academics entomology students and the growing body of amateur entomologists and insect photographers **The Collembola of Fennoscandia and Denmark, Part I: Poduromorpha**

Arne Fjellberg, 2024-03-11 This is the first part of a multivolume monograph dealing with the about 400 species of springtails Collembola which are known to occur in the Nordic countries including the Arctic Islands Volume 1 contains richly illustrated identification keys and full descriptions of 161 species of the section Poduromorpha The geographical distribution and the preferred natural habitats of the species are summarised New morphological concepts in species diagnostics are introduced in particular concerning the mouthparts morphology which greatly aids in precise identification of the many difficult species of the family Onychiuridae The book will be indispensable to everyone working with springtail identification in northern Europe The introduction of new diagnostic characters will be of universal interest to any Collembola taxonomist

Collembola of Fennoscandia and Denmark Arne Fjellberg, 2007-01-01 The book provides richly illustrated identification keys and descriptions of the ca 240 Nordic springtail species of Entomobryomorpha and Symphypleona thus completing the survey which was introduced with the first volume on Poduromorpha in 1998 *The Collembola of Fennoscandia and Denmark, Part II: Entomobryomorpha and Symphypleona* Arne Fjellberg, 2007-08-31 This volume completes the survey of the ca 400 species of springtails which can be found in Finland Sweden Norway Denmark Iceland the Faroes and the Arctic Islands and includes the sections Entomobryomorpha and Symphypleona The first volume published in 1998 covered Poduromorpha Identification keys and full descriptions of the species are richly illustrated by line drawings Photos are provided for some species displaying characteristic patterns of pigmentation New diagnostic characters including sensillary chaetotaxy and details of the mouth apparatus are introduced With the appearance of this book soil scientists and the interested amateur have now a modern tool to identify all species of Nordic springtails In addition the habitat preferences and geographical distribution are summarised The book will be of general interest to everyone working on springtail identification *The fleas (Siphonaptera) of Fennoscandia and Denmark* Gunvor Brinck-Lindroth, Smit, 2007-05-31 This book is the first comprehensive account on the flea fauna of Fennoscandia and Denmark Totally 89 species subspecies are treated of which 69 have been found in the region The remainder are known from neighboring areas and may turn up The introductory part gives a brief historical overview of the earliest literature on fleas and a more detailed account of the Scandinavian literature up to the present This is followed by a discussion of flea host associations in relation to distribution in a general and Scandinavian perspective Other chapters deal with life history medical importance morphology and collecting preservation of fleas and are followed by a flea host index The systematic part amply illustrated with Frans Smit's outstanding line drawings provides identification keys to adult fleas from family to subspecies For each species subspecies relevant available information on synonymy identification distribution host relations and biology is given The book concludes with a summary of the provincial distribution of fleas in Fennoscandia and Denmark a bibliography and a taxonomic name index *The Empidoidea (Diptera) of Fennoscandia and Denmark, Part IV* M. Chvála, 2005-12-01 This is the fourth empidid volume of the series Fauna entomologica scandinavica covering the Scandinavian species of what is undoubtedly the most difficult Palaearctic genus of the family Empididae the genus *Hilara* Meigen 1822 The format of the present volume is the same as in the preceding three volumes The General part refers only briefly to the morphology of the adults and is followed by sections on the Classification Life history covering feeding habits epigamic behaviour phenology and a section on Zoogeography All these sections are arranged as in the preceding empidid volumes including the zoogeography section in which the Scandinavian species are classified into the usual six distributional groups The main part is the systematic treatment which also follows the arrangement of the preceding empidid volumes The Key to Fennoscandian species includes several additional species which do not receive a separate treatment in the following systematic part but they are all given a

clear diagnosis in the discussion of the most closely related Scandinavian species In all 90 species of *Hilara* are treated in the present volume of which 72 have been found to occur in Denmark and Fennoscandia These further 18 species are included as they may well occur within the area covered by this series although they have not yet been found there *The Drosophilidae (Diptera) of Fennoscandia and Denmark* Gerhard Bächli, Frans Viljoen, Stefan Andersson Escher, Anssi Saura, 2005-03-01 Many species of *Drosophila* are very important laboratory animals in almost all fields of biological research because of the ease of culturing on artificial media as well as of their rapid rate of development Also the study of natural populations including their living conditions has become more and more important The *Drosophilidae (Diptera) of Fennoscandia* gives a detailed account of the taxonomy identification distribution and biology of 17 genera and 128 species of West European *Drosophilidae* Full descriptions and standardized illustrations of the terminalia are provided for 80 North European species The aims of this book is to facilitate field work by providing identification keys and by giving hints for further studies on biology distribution and other aspects of drosophilids *The Aquatic Adephaga (Coleoptera) of the Fennoscandia and Denmark. Ii. Dytiscidae* Anders N. Nilsson, Morgens Holmen, 1995 This volume contains richly illustrated keys and descriptions of the 157 species of predaceous diving beetles Dytiscidae found in Fennoscandia Denmark and the Baltic States Information about biology and distribution is included as is a catalogue of provincial records *The Aquatic Adephaga (Coleoptera) of Fennoscandia and Denmark, Volume II. Dytiscidae* Nilsson, Holmen, 2023-08-14 This volume treats the 157 species of predaceous diving beetles Dytiscidae found in Finland East Fennoscandia Sweden Norway Denmark and the Baltic States Introducing chapters provide general information about the state of knowledge and distribution morphology of adults and larvae bionomics collecting and rearing The main part comprises keys and descriptions for identification of adult beetles including information on distribution and biology of all species A catalogue shows provincial records in Fennoscandia and Denmark The book contains 608 figures and 3 plates An up to date well illustrated identification manual for the Fennoscandian and Danish Dytiscidae has been wanting for decades This work is based on the latest advances in synonymy and taxonomy of the family and on the study of thousands of specimens in collections and field *The Aphidoidea (Hemiptera) of Fennoscandia and Denmark. VI* Ole E. Heie, 1995 This is the last volume dealing with the aphids of Fennoscandia and Denmark It treats the remaining species of Aphididae and the family Lachnidae and contains a host plant index and an index to all Latin names of the species treated in all six volumes Like the first five volumes it contains keys and illustrations **The Flat-footed Flies (Diptera: Opetiidae and Platypezidae) of Europe** Peter Chandler, 2001-01-19 The Flat footed Flies Diptera Opetiidae and Platypezidae of Europe presents a detailed account of the taxonomy biology and distribution of the 44 European species of Opetiidae and Platypezidae Two of these are here described as new to science Known larvae develop in the larger fungi adults are honey dew feeders on broad leaves Both families are characterised and proposals on their relationships and phylogeny are discussed All European species are keyed and described in detail Adult

and larval biology are reviewed The provincial distribution of 35 species occurring in Fennoscandia and Denmark is listed in a detailed catalogue The work presents identification keys to genera and species and for each species descriptions and accounts of its nomenclature biology and distribution Known early stages are keyed to genera and described under each species Altogether 427 line drawings and 6 beautiful colour illustrations accompany the text African Invertebrates ,2007

The Siphonini (Diptera: Tachinidae) of Europe Stig Andersen,2023-08-21 The present volume presents a detailed account of the taxonomy biology and distribution of the European species of Siphonini This group of tachinid Diptera totals 58 species in Europe of which 6 are here described as new to science In most species the immatures live as endoparasitoids of lepidopterous larvae but a few species even attack tipulid larvae Several species of Siphonini are of great economic interest as agents for the control of lepidopterous and tipulid pests in agriculture and forestry An analysis and proposal on the systematic position of the Siphonini is given together with a key to larger taxonomic entities of Tachinidae The generic classification is also critically emphasized A separate chapter summarizes aspects of the group s natural history life cycles mating behaviour oviposition strategies etc The taxonomic part contains identification keys to genera and species and for each species a diagnosis a description and accounts on the nomenclature biology and distribution is given A separate catalogue details the provincial distribution of the 47 species occurring in Fennoscandia and Denmark No less than 275 line drawings and 15 colour illustrations accompany the text **The Entomologist's Monthly Magazine** ,2011 Theoretical Approaches to Biological Control Bradford A. Hawkins,Howard V. Cornell,2008-10-14 Biological control is the suppression of pest populations using predators parasitoids and pathogens Historically biological control has largely been on a trial and error basis and has failed more often than it has succeeded However by developing theories based upon fundamental population principles and the biological characteristics of the pest and agent we can gain a much better understanding of when and how to use biological control This book gathers together recent theoretical developments and provides a balanced guide to the important issues that need to be considered in applying ecological theory to biological control It will be a source of productive and stimulating thought for all those interested in pest management theoretical ecology and population biology 2006, 田代正幸 田代正幸 田代 正 田代正幸 田代正幸 **Records of the Auckland Museum** ,2007 **Spixiana** ,2004

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