

Division of the Pterophoridae into tribes (Lepidoptera)

C. Gielis

Abstract

The division of the family Pterophoridae into tribes is proposed.

Zusammenfassung

Die Einteilung der Familie Pterophoridae in Triben wird vorgestellt.

Key words: classification, Pterophoridae, taxonomy, tribes.

Introduction

The phylogenetic studies by GIELIS (1993) caused considerable discussion. The results caused a shift in the separation of the subfamilies. The traditional subdivision in Platyptiliinae and Pterophorinae, accepted for more than one and a half century, was abandoned and a new division into subfamilies, based on phylogenetic studies, was proposed. Without doubt this change had far reaching consequences. For example, in the genus group *Marasmarcha* MEYRICK, 1886 and *Exelastis* MEYRICK, 1908, traditionally belonging to the Platyptiliinae, according to the wing venation, an asymmetrical male genital structure is found, which favours a position in the former subfamily Pterophorinae. This genus complex is, together with those highlighted in the publication of 1993, illustrative for the inconsistent subdivision in the traditional sense.

The subfamily Pterophorinae contains in its present status approximately 1000 species, and quite a number of genera. This makes a subdivision into tribes desirable. The splitting of this large subfamily into recognizable groups of genera, which are phylogenetically, and often on eye-sight recognition, related to one another was necessary. The phylogenetic basis of the proposed tribe system is based on the study of GIELIS (1993). Further studies may possibly change the insight in this grouping and cause a different view.

Since the phylogenetic studies in 1993, a series of new genera have been described. Some of these genera are of wide influence and value, others are subjects to discussion on their mere validity. In the descriptions of most of the newly erected genera a note is given on their relation to other genera. Based on this information, these genera are tentatively placed into the phylogenetic system. I am well aware that this may be a cause for mistakes. However, without the complete redefining of all genera involved, often with insufficient information to enter a data-matrix as required for a complete recalculation, this is the choice made at this stage of the work on the plume moths.

Genera marked with an asterisk * are currently considered to be junior synonyms of other genera mentioned. The definitive position of these synonyms is under study.

List of Pterophoridae genera, with separation into subfamilies and tribes:

Family PTEROPHORIDAE ZELLER, 1841

Subfamily AGDISTINAE TUTT, 1907

Genus *Agdistis* HÜBNER, [1825]

Subfamily OCHYROTICINAE WASSERTHAL, 1970

Genus *Ochyrotica* WALSINGHAM, 1891

Subfamily DEUTEROCOPINAE GIELIS, 1993

Genus *Leptodeutero copus* FLETCHER, 1910

Genus *Hexadactilia* FLETCHER, 1910

Genus *Heptaloba* WALSINGHAM, 1885

Genus *Deutero copus* ZELLER, 1852

Subfamily PTEROPHORINAE ZELLER, 1841

Tribus Tetrascalini

Genus *Tetrascalis* MEYRICK, 1887

Genus *Walsinghiamiella* BERG, 1898

Genus *Titanoptilus* HAMPSON, 1905

Genus *Xenopterophora* HORI, 1933

Genus *Macrotinactis* MEYRICK, 1912

Tribus Platyptiliini

Genus *Fletcherella* DIAKONOFF, 1952

Genus *Sochchora* WALKER, 1864

*Genus *Platyptiliodes* STRAND, 1913

Genus *Quadriptilia* GIELIS, 1994

Genus *Platyptilia* HÜBNER, [1825]

Genus *Bigotilia* GIBEAUX, 1994

Genus *Vielleilus* GIBEAUX, 1994

Genus *Bipunctiphorus* GIBEAUX, 1994

Genus *Gillmeria* TUTT, 1905

Genus *Anstenoptilia* ZIMMERMAN, 1958
Genus *Lantanophaga* ZIMMERMAN, 1958
Genus *Stenoptilodes* ZIMMERMAN, 1958
Genus *Paraamblyptilia* GIELIS, 1991
Genus *Uroloba* WALSINGHAM, 1891
Genus *Stenoptilia* HÜBNER, [1825]
Genus *Xyoptila* MEYRICK, 1908
Genus *Pseudoxyoptila* HORI, 1933
Genus *Nippoptilia* MATSUMURA, 1931
Genus *Koremaguia* HAMPSON, 1891
Genus *Paraplatyptilia* BIGOT & PICARD, 1986
Genus *Postplatyptilia* GIELIS, 1991
Genus *Stockophorus* GIELIS, 1993
Genus *Amblyptilia* HÜBNER, [1825]
Genus *Inferuncus* GIBEAUX, 1994
Genus *Lioptilodes* ZIMMERMAN, 1958
Genus *Michaelophorus* GIELIS, in press
Genus *Sphenarches* MEYRICK, 1886
Genus *Leesi* GIBEAUX, 1994
Genus *Crocodyoscelus* WALSINGHAM, 1897
Genus *Buszkoiana* KOÇAK, 1981
Genus *Cnaemidophorus* WALLENGREN, 1862

Tribus **Exelastini**

Genus *Marasmarcha* MEYRICK, 1886
Genus *Exelastis* MEYRICK, 1908
*Genus *Cordivalva* GIBEAUX, 1994
*Genus *Hepalastis* GIBEAUX, 1994
Genus *Antarches* GIBEAUX, 1994
Genus *Fuscoptilia* ARENBERGER, 1991
Genus *Arcoptilia* ARENBERGER, 1985

Tribus **Oxyptilini**

Genus *Tomotilus* YANO, 1961
Genus *Geina* TUTT, 1906
Genus *Intercapperia* ARENBERGER, 1988
Genus *Eucapperia* GIBEAUX, 1994
Genus *Procapperia* ADAMCZEWSKI, 1951
Genus *Paracapperia* BIGOT & PICARD, 1986
Genus *Capperia* TUTT, 1905
Genus *Oxyptilus* ZELLER, 1841
Genus *Dejongia* GIELIS, 1993
Genus *Crombrugghia* TUTT, 1906
Genus *Stenodacma* AMSEL, 1959
Genus *Buckleria* TUTT, 1905
Genus *Trichoptilus* WALSINGHAM, 1880
Genus *Stangeia* TUTT, 1905
Genus *Megalorhipida* AMSEL, 1935

Tribus **Oidaematophorini**

Genus *Karachia* AMSEL, 1968
Genus *Puerphorus* ARENBERGER, 1989

Genus *Pselnophorus* WALLENGREN, 1881

Genus *Setosipennula* GIBEAUX, 1994

Genus *Helpaphorus* GIBEAUX, 1994

Genus *Crassuncus* GIBEAUX, 1994

Genus *Paravinculia* CAPUSE, 1987

Genus *Hellinsia* TUTT, 1905

Genus *Picardia* GIBEAUX, 1994

Genus *Paulianilus* GIBEAUX, 1994

Genus *Oidaematophorus* WALLENGREN, 1862

Genus *Emmelina* TUTT, 1905

Genus *Adaina* TUTT, 1905

Tribus **Pterophorini**

Genus *Calyciphora* KASY, 1960

Genus *Tabulaephorus* ARENBERGER, 1993

Genus *Porrittia* TUTT, 1905

Genus *Merrifieldia* TUTT, 1905

Genus *Patagonophorus* GIELIS, 1991

Genus *Wheeleria* TUTT, 1905

Genus *Chocophorus* GIELIS & MATTHEWS-LOTT, 1994

Genus *Imbophorus* ARENBERGER, 1991

Genus *Pterophorus* SCHÄFFER, 1766

*Genus *Sibiretta* USTJUZHANIN, 1996

Genus *Septuaginta* USTJUZHANIN, 1996

Genus *Singularia* ARENBERGER, 1988

Genus *Diacrotricha* ZELLER, 1852

Genus *Cosmoclostis* MEYRICK, 1886

Literature

GIELIS, C., 1993. Generic revision of the superfamily Pterophoroidea. - Zoologische Verhandelingen, Leiden 290: 1-139, figs. 1-241.

Author's address: Cees Gielis, Mr. Haafkensstraat 36, NL- 4128 CJ Lexmond, The Netherlands.
