Division of the Pterophoridae into tribes (Lepidoptera)

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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 *Leptodeuterocopus* FLETCHER, 1910 Genus *Hexadactilia* FLETCHER, 1910 Genus *Heptaloba* WALSINGHAM, 1885 Genus *Deuterocopus* ZELLER, 1852

Subfamily PTEROPHORINAE ZELLER, 1841

Tribus Tetraschalini

Genus *Tetraschalis* MEYRICK, 1887 Genus *Walsinghamiella* 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 load unter www.biologiezentrum

Genus Lantanophaga ZIMMERMAN, 1958

Genus Stenoptilodes ZIMMERMAN, 1958

Genus Paraamblyptilia GIELIS, 1991

Genus Uroloba WALSINGHAM, 1891

Genus Stenoptilia HÜBNER, [1825]

Genus Xvroptila MEYRICK, 1908

Genus Pseudoxyroptila 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 Crocydoscelus 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 Gypsochares MEYRICK to 1890 has Museum Wien, download unter www.biologiezentrum.at

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 Calvciphora 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.

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