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Plume moths of Malawi (Lepidoptera: Pterophoridae)

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Abstract

A review of Pterophoridae of Malawi is presented; 96 species from 35 genera and five subfamilies are recorded. Fourteen species are described as new: *Agdistis nyasa* Kovtunovich & Ustjuzhanin sp. nov., *Platyptilia mugesse* Kovtunovich & Ustjuzhanin sp. nov., *Stenoptilia juniper* Kovtunovich & Ustjuzhanin sp. nov., *Sphenarches mulanje* Kovtunovich & Ustjuzhanin sp. nov., *Marasmarcha lamborni* Kovtunovich & Ustjuzhanin sp. nov., *Arcoptilia malawica* Kovtunovich & Ustjuzhanin sp. nov., *Apoxyptilus uzumarus* Kovtunovich & Ustjuzhanin sp. nov., *Gypsochares murphy* Kovtunovich & Ustjuzhanin sp. nov., *Crassuncus livingstoni* Kovtunovich & Ustjuzhanin sp. nov., *Hellinsia namizimu* Kovtunovich & Ustjuzhanin sp. nov., *Hellinsia chewa* Kovtunovich & Ustjuzhanin sp. nov., *Picardia leza* Kovtunovich & Ustjuzhanin sp. nov., *Picardia raymondi* Kovtunovich & Ustjuzhanin sp. nov., *Picardia tumbuka* Kovtunovich & Ustjuzhanin sp. nov. New synonymies are established for 10 species: *Deuterocopus deltoptilus* Meyrick, 1930 = *Deuterocopus socotranus* Rebel, 1907 syn. nov.; *Deuterocopus henrioti* Bigot & Boireau, 2006 = *Deuterocopus socotranus* Rebel, 1907 syn. nov.; *Platyptilia periacta* Meyrick, 1910 = *Platyptilia farfarella* Zeller, 1867 syn. nov.; *Platyptilia claripicta* Fletcher, 1910 = *Platyptilia farfarella* Zeller, 1867 syn. nov.; *Platyptilia pygmaeana* Strand, 1913 = *Sphenarches anisodactylus* (Walker, 1864) syn. nov.; *Exelastis bergeri* Bigot, 1969 = *Exelastis crudipennis* (Meyrick, 1932) syn. nov.; *Prichotilus tanzanicus* Gielis, 2011 = *Prichotilus tara* Ustjuzhanin and Kovtunovich, 2011 syn. nov.; *Crassuncus chappuisi* Gibeaux, 1994 = *Crassuncus ecstaticus* (Meyrick, 1932) syn. nov.; *Paulianilus lolibai* Arenberger, 2011 = *Hellinsia madecasseus* (Bigot, 1964) syn. nov.; *Pterophorus purus* Meyrick, 1913 = *Crassuncus pacifica* (Meyrick, 1911) syn. nov. New combinations are established for six species: *Marasmarcha bengtssoni* (Gielis, 2009) comb. nov.; *Marasmarcha locharcha* (Meyrick, 1924) comb. nov.; *Marasmarcha rubriacuta* (Gielis, 2009) comb. nov.; *Procapperia insomnia* (Townsend, 1956) comb. nov.; *Crassuncus ecstaticus* (Meyrick, 1932) comb. nov.; *Crassuncus colubratus* (Meyrick, 1909) comb. nov. For *Stenoptilia viettei* Gibeaux, 1994, *Sphenarches bifurcatus* Gielis, 2009, *Crassuncus ecstaticus* (Meyrick, 1932) images of the male genitalia are presented for the first time, for *Marasmarcha bengtssoni* (Gielis, 2009), and *Stenodacma cognata* Gielis, 2009 female genitalia are illustrated for the first time. Species of wide pantropical or cosmopolitan distribution are not reported as new for the fauna of Malawi. However, 65 species of Pterophoridae are reported for the fauna of Malawi for the first time. One of them, *Stenoptilia viettei* Gibeaux, 1994, described from Madagascar, is reported for continental Africa for the first time.

Резюме

Приводится обзор видов Pterophoridae Malawi. Выявлено 96 видов из 35 родов и 5 подсемейств. 14 видов описываются как новые для науки: *Agdistis nyasa* Kovtunovich & Ustjuzhanin sp. nov., *Platyptilia mugesse* Kovtunovich & Ustjuzhanin sp. nov., *Stenoptilia juniper* Kovtunovich & Ustjuzhanin sp. nov., *Sphenarches mulanje* Kovtunovich & Ustjuzhanin sp. nov., *Marasmarcha lamborni* Kovtunovich & Ustjuzhanin sp. nov., *Arcoptilia malawica* Kovtunovich & Ustjuzhanin sp. nov., *Apoxyptilus uzumarus* Kovtunovich & Ustjuzhanin sp. nov., *Gypsochares murphy* Kovtunovich & Ustjuzhanin sp. nov., *Crassuncus livingstoni* Kovtunovich & Ustjuzhanin sp. nov., *Hellinsia namizimu* Kovtunovich & Ustjuzhanin sp. nov., *Hellinsia chewa* Kovtunovich & Ustjuzhanin sp. nov., *Picardia leza* Kovtunovich & Ustjuzhanin sp. nov., *Picardia raymondi* Kovtunovich & Ustjuzhanin sp. nov., *Picardia tumbuka* Kovtunovich & Ustjuzhanin sp. nov. Установлена синонимия для 10

Material examined: 1 ♂ Luchenza, F. Nisbet.; 1 ♂ Mt. Mulanje, 27.01.1914, S. A. Neave.

Distribution: Cameroon, Benin, Congo, Madagascar, Malawi, Zimbabwe.

Notes. New for Malawi.

***Pterophorus dallastai* Gielis, 1991**

Pterophorus dallastai Gielis, 1991: 7. (Type locality: Zaire).

Material examined: 1 ♂, 1 ♀ Zomba Plateau, 26.10.2003, P. Schmit, 2 ♂, 1 ♀ 17.04.2010, R. Murphy, 1 ♂ 13.12.2010, Kovtunovich V. & Ustjuzhanin P.; 1 ♀ Nkhorongo, 02.07.2009, R. Murphy.

Distribution: Congo, Malawi.

Notes. New for Malawi.

***Pterophorus rhyparias* (Meyrick, 1907)**

Alucita rhyparias Meyrick, 1907: 489. (Type locality: Rep. S. Africa).

Material examined: 2 ♂ Nkhorongo, 8.07.2009, 1 ♀ 21.08.2009, 1 ♂ 15.09.2009, 1 ♀ 9.10.2009, 1 ♂, 1 ♀ 29.08.2011, R. Murphy.

Distribution: Rep. S. Africa, Congo, Kenya, Tanzania, Ethiopia, Madagascar, Uganda, Malawi, Zimbabwe.

Notes. New for Malawi.

***Pterophorus spissa* (Bigot, 1969)**

Aciptilia spissa Bigot, 1969: 202. (Type locality: Zaire).

Material examined: 1 ♂ Zomba Plateau, 26.10.2003, P. Schmit.

Distribution: Congo, Ghana, Nigeria, Cameroon, Malawi, Zimbabwe.

Notes. New for Malawi.

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References

- Arenberger, E. (1995) Pterophoridae. In: Amsel, H.G., Gregor, F. & Reisser, H. (Eds.), *Microlepidoptera Palaearctica*. 9. Textband. Verlag G. Braun, Karlsruhe, xxv + 258 pp.
- Gibeaux, C. (1994) Insectes Lepidopteres: Pterophoridae. *Faune de Madagascar*, 81, 1–176, 316 figs.
- Gielis, C. (2003) Pterophoroidea & Alucitoidea (Lepidoptera). *World Catalogue of Insects*, 4, 1–198.
<http://dx.doi.org/10.1002/mmnd.20030500211>

- Gielis, C. (2011) Notes on some African Pterophoridae, with description of new species (Lepidoptera). *Boletín de la Sociedad Entomológica Aragonesa (S.E.A.)*, 49, 33–63.
- Kovtunovich, V.N. & Ustjuzhanin, P.Ya. (2006) The genus *Xyroptila* Meyrick, 1908 in the World fauna: new species, new records and taxonomical Comments (Lepidoptera, Pterophoridae). *Atalanta*, 37 (N1/2), 249–276.
- Ustjuzhanin, P.Ya. & Kovtunovich, V.N. (2010) On the fauna of the plume moths (Lepidoptera, Pterophoridae) of KwaZulu Natal province (South-African Republic). *Euroasian entomological journal*, 9 (4), 689–719, Figs. 1–88.
- Ustjuzhanin, P.Ya. & Kovtunovich, V.N. (2011) The first report of *Prichotilus* Rose et Pooni, 2005 (Lepidoptera, Pterophoridae) from Africa with description of two new species. *Amurian zoological journal*, III (4), 358–359, Pl. v.
- Ustjuzhanin, P.Ya., Kovtunovich, V.N. (2013) On the fauna of Plume Moths (Lepidoptera, Pterophoridae) of Zimbabwe. *Amurian Zoological Journal*, V (2), 153–160, Pl. II.