

## The Pterophoridae fauna of Uzbekistan (Lepidoptera: Pterophoridae)

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The article gives a faunistic review of Uzbekistan Pterophoridae taking into account all published data and new findings. The plume moths fauna of Uzbekistan currently includes 45 species, 10 of which are indicated for the first time (marked with \*). For the latter, data on the collected material are provided.

**Keywords:** Lepidoptera; Pterophoridae; plume moths; Uzbekistan; new data

The territory of Uzbekistan is diverse in its landscapes: these are deserts, steppes and mountains. The animal and plant world here is rich in diversity. The information about the plume moths of Uzbekistan is scattered in separate articles (Gibeaux, 1995, 1997; Arenberger, 1999, 2002a, Arenberger, & Buchsbaum, 1998, 2000, Ustjuzhanin, 2001) and included in the Pterophoridae catalog of the world fauna (Gielis, 2003). Later, the data on the plume moths of Uzbekistan appeared in the following works (Ustjuzhanin & Kovtunovich, 2010, 2016). This article is a compilation of all literary data, including new information on species previously unknown for Uzbekistan. This work also continues the study of the fauna Pterophoridae in Middle Asia.

### Materials and methods

In determining the material, we used modern literature (Arenberger 1995, 2002b, 2005). In difficult cases, to identify species, the material was compared with the Pterophoridae collection funds in the Natural History Museum, UK, London (BMNH). The studied material is deposited in the private collection of P. Ustjuzhanin and V. Kovtunovich.

### List of species new to the fauna of Uzbekistan

\**Agdistis flavissima* Caradja, 1920

**Material:** 1 male, 1 female, Surxondaryo Region, Jarkurgan, 10.v. 2004; 1 female, Fergana, 24.v.2004, O. Legezin.

\**Gillmeria tetradactyla* (Linnaeus, 1761)

**Material:** 1 male, Tashkent Region, Brichmula vill., Chatkal riv., 27.viii.1998; 1 male., Tashkent Region, Karzhantau Mts., stow Ak Tash, 1–2. vii.2000, S. Chebatorev.

\**Amblyptilia acanthadactyla* (Hübner, [1813])

**Material:** 1 male, Chatkal reserve, 07.vi.1992, V. Zolotuchin.

\**Crombrugghia tristis* (Zeller, 1839)

**Material:** 1 male, Tashkent Region, Ak-Tash vill., 16.vii.1999, V. Shablya.

\**Hellinsia chrysocomae* (Ragonot, 1875)

**Material:** 1 female, 29.v.1992; 2 female, 13–14.vi.1992; 1 female, 05.x.1992, Chatkal reserve, V. Zolotuchin.

\**Hellinsia pectodactylus* (Staudinger, 1859)

**Material:** 4 ex., western part of Gissar rd., env. vil. Kaltakol, 2450m, 13.vi.2004, O. Legezin.

\**Merrifieldia baliodactyla* (Zeller, 1841)

**Material:** Kashkadarya region, Kitab reserve, 5 ex., 28.vi.1999, 6 ex., 15–18.vi.2000;

2 female, Tashkent Region, Karzhantau Mts., Ak-Tash riv., 1–2. vii.2000, S. Chebatorev; 4 ex., Tashkent Region, Karzhantau Mts., Ak-Tash riv., 10–13.vii.2009, O. Legezin.

\**Merrifieldia alaica* (Caradja, 1920)

**Material:** 9 ex., Hissar Mts, Kaltakol vill., 2400m, 26.vi.2009, O. Legezin.

\**Merrifieldia huberti* Arenberger, 1999

**Material:** 1 male, 1 female, Kashkadarya region, Kitab reserve, 28.vi.1999, S. Chebatorev.

\**Pterophorus pentadactyla* (Linnaeus, 1758)

Material: 3 ex., Tashkent Region, Chimgan vil., 04.vii.1999, V. Shablya.

## Complete list of the Uzbekistan Pterophoridae fauna

- Agdistis falkovitshi* Zagulajev, 1986  
 \**Agdistis flavissima* Caradja, 1920  
*Agdistis gerasimovi* Zagulajev & Blumental, 1994  
 =*Agdistis detruncatum* Zagulajev & Blumental, 1994  
 =*Agdistis tigrovaja* Arenberger, 2001  
*Agdistis ingens* Christoph, 1885  
*Adactyla tamaricis* Zeller, 1847: 899  
 =*Agdistis bagdadiensis* Amsel, 1949  
*Platyptilia gonodactyla* (Denis & Schiffermüller, 1775)  
*Platyptilia longiloba* Gibeaux, 1997  
*Gillmeria pallidactyla* (Haworth, 1811)  
 \**Gillmeria tetradactyla* (Linnaeus, 1761)  
*Cnaemidophorus rhododactylus* (Denis & Schiffermüller, 1775)  
*Stenoptilia aktashiensis* Gibeaux, 1997  
*Stenoptilia inexpectata* Gibeaux, 1995  
*Stenoptilia mannii* (Zeller, 1852)  
 =*Stenoptilia megalochra* Meyrick, 1927  
*Stenoptilia murzini* Gibeaux, 1995  
*Paraplatyptilia dugobae* Gibeaux, 1997  
*Paraplatyptilia metzneri* (Zeller, 1841)  
*Amblyptilia acanthadactyloides* Gibeaux, 1997  
 \**Amblyptilia acanthadactyla* (Hübner, [1813])  
*Marasmarcha colossa* Caradja, 1920  
*Marasmarcha cinnamamea* (Staudinger, 1870)  
*Procapperia kuldschaensis* (Rebel, 1914)  
 =*Procapperia asiatica* Zagulajev, 1986  
*Procapperia orientalis* Arenberger, 1988  
*Capperia pluschi* Ustjuzhanin & Kovtunovich, 2011  
*Capperia salanga* Arenberger, 1995  
*Crombrugghia distans* (Zeller, 1847)  
 =*Oxyptilus supplementum* Gibeaux, 1997  
 \**Crombrugghia tristis* (Zeller, 1839)  
 \**Hellinsia chrysocomae* (Ragonot, 1875)  
*Hellinsia inulae* (Zeller, 1852)  
*Hellinsia osteodactylus* (Zeller, 1841)  
 =*Pterophorus turbidellus* Caradja, 1920  
 =*Pterophorus sophronistes* Meyrick, 1938  
 \**Hellinsia pectodactylus* (Staudinger, 1859)  
*Hellinsia pseudokorbi* Gibeaux, 1997  
*Oidaematophorus lithodactylus* (Treitschke, 1833)  
*Oidaematophorus rogenhoferi* (Mann, 1871)  
*Emmelina monodactyla* (Linnaeus, 1758)  
*Tabulaephorus hissaricus* (Zagulajev, 1986)  
*Tabulaephorus maracandicus* Arenberger & Buchsbaum, 1998  
*Tabulaephorus murzini* Gibeaux, 1997  
*Tabulaephorus narynus* Arenberger, 1993  
*Porritia herzi* Ustjuzhanin, 2001  
 \**Merrifieldia alaica* (Caradja, 1920)  
 \**Merrifieldia baliodactyla* (Zeller, 1841)  
*Merrifieldia caspia* (Lederer, 1870)  
 \**Merrifieldia huberti* Arenberger, 1999  
*Merrifieldia nigrocostata* Gibeaux, 1997  
 \**Pterophorus pentadactyla* (Linnaeus, 1758)

## Discussion

As a result of analyzing literature data on the Pterophoridae fauna of Uzbekistan and the additional material collected by our colleagues, 45 species have been found, 10 of them are new for the fauna of the country. In the previous papers on the plume

moths fauna of Kyrgyzstan and Tajikistan (Ustjuzhanin & Kovtunovitch, 2010, 2016) 64 and 48 species respectively have been found. There is no doubt that further research on Pterophoridae of Uzbekistan will be increased by at least 10 species.

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