

## THE FAUNA OF PLUME MOTHS (LEPIDOPTERA, PTEROPHORIDAE) OF KYRGYZSTAN

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[Устюжанин П.Я., Ковтунович В.Н. Фауна пальцекрылок (Lepidoptera, Pterophoridae) Киргизии]

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## INTRODUCTION

The nature of Kyrgyzstan is extraordinarily rich and various. Most of the territory is covered by mountains. This is a unique place in Central Asia where the species of wild animals and plants are concentrated. Among the plants and animals there are many rare and endemic species. The pteroforidae fauna here is also rich in its diversity of species. There have been no special works on the pteroforidae fauna of Kyrgyzstan until now. The literature contains fragmentary information on the distribution and description of new species of the Pterophoridae from Kyrgyzstan [Zagulajev, 1986, 2002; Gibeaux, 1996, Arenberger, 1998, 1999, 2001, 2002; Arenberger & Buchbaum, 1998, 2000; Gielis, 2000]. The basis of this work was a series of special collections of the Pterophoridae in Kyrgyzstan made by the Russian entomological expedition in June-August, 2008. As a result, more than 1000 specimens of the 30 species were collected. The fund collections of the Zoological Institute, St. Petersburg (ZISP), of the Institute of Systematics and Ecology of Animals, Novosibirsk (ISEA) and the collections of individual collectors were also used. Summing up all the information on the Pterophoridae of Kyrgyzstan from the literature and available material we allocated 64 species of 22 genera. Four species new to science are described. The holotypes of the described species are stored in the ISEA (Novosibirsk, Russia) and ZISP (St-Petersburg, Russia), the paratypes are in the BMNH (London) and in the collections of the authors (CUK).

**Abbreviations:**

ISEA – Institute of Systematics and Ecology of Animals (Novosibirsk, Russia).

ZISP – Zoological Institute, (St. Petersburg, Russia).

BMNH – British Museum Natural History, (UK, London).

CUK – The collection by P. Ustjuzhanin and V. Kovtunovich (Novosibirsk and Moscow, Russia).

## TAXONOMY

*Agdistis adactyla* Hübner, ([1823])*Alucita adactyla* Hübner, [1823]: t. 7, figs. 32-34. (Type locality: Austria).**Material.** East. slope of Fergana range, Urumbash riv., 2-3 km NNE of pass Urumbash, to the light, 25.07.2005 – 1♂, V. Dubatolov, E. Nikolaeva; Alai val., 20 km SW of Daraut-Kurgan, 2700 m, 7.07.2008 – 3♂, Ustjuzhanin & Kovtunovich; the Central Tian Shan', right bank of Naryn riv., val. Kazarman, 1500 m, 6-7.08.2008 – 1♂, 1♀, A. Sochivko.**Range.** Europe, Asia Minor, Central Asia, Kazakhstan, the entire Siberia, Yakutia, southern Russian Far East, Iran, Afghanistan, Mongolia, China: Beijing, Tianjin, Hebei, Inner Mongolia, Shaanxi, Gansu, Ningxia, Xinjiang [Li, Hao, Wang, 2003].**Flight period.** June – August.*Agdistis tamaricis* Zeller, 1847*Agdistis tamaricis* Zeller, 1847: 899. (Type locality: France).**Material.** Inner Tian Shan', Naryn riv., val. Kazarman, 1400 m, 21.07.2000 – 2♂, 2♀, S. Churkin.**Range.** Europe, Turkmenistan, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Iran, Afghanistan, Pakistan, Mongolia, China: Tianjin, Hebei, Inner Mongolia, Shanghai, Shandong, Shaanxi, Gansu, Ningxia, Taiwan [Li, Hao, Wang, 2003].**Flight period.** July.*Agdistis ingens* Christoph, 1885*Agdistis ingens* Christoph, 1885: 124. (Type locality: Turkmenistan).**Range.** The south-eastern European part of Russia, Turkmenistan, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Afghanistan, Mongolia, China: Gansu [Li, Hao, Wang, 2003].

**Notes.** Specified for Kyrgyzstan from the literature [Arenberger, 1995].

*Agdistis asthenes* Bigot, 1970

*Agdistis asthenes* Bigot, 1970: 283. (Type locality: Mongolia).

**Material.** Tian Shan', vil. Naryn, Chu riv., Orto-Tokoj reservoir, 1650 m, 7.07.2000 – 3♂, Rutjan; Issyk-Kul', Kadznyi-Sai vic., 1650 m, 8-9.07.2000 – 1♂, 1♀, E. Rutjan.

**Range.** Mongolia, Kazakhstan, Kyrgyzstan.

*Agdistis turkestanica* Zagulajev, 1990

*Agdistis turkestanica* Zagulajev, 1990: 113. (Type locality: Kazakhstan).

*Agdistis pseudomevlaniella* Gibeaux, 1997: 418. (Type locality: Kazakhstan).

**Range.** Kazakhstan, Turkmenistan, Kyrgyzstan.

**Notes.** Specified for Kyrgyzstan from the literature [Gielis, 2003].

*Agdistis manas* sp.n.

**Material.** Holotype, ♀, ISEA, gen. prep. 201112, Sary Jaz, Kaingda riv. val., near the mouth, to the light, 5.08.2003, V. Dubatolov, E. Nikolaeva. Paratype, ibid, 3♀. 1 paratype is stored in ZISP, gen. prep. 1793, the other is in BMNH (London). gen. Prep. 22932; 1♀, Kashgaria, Taldy-Bulak creek, between Nura and Irkeshtam, to the light, 18.07.2003, V. Dubatolov, E. Nikolaeva, the rest are in the collection of the authors (col. pl. II: 1, 5).

**External characters.** The head, thorax and tegulae are light grey. The labial palpi are short and brushy. They are two times shorter than the eye diameter. The length of the forewing is 15 mm. The wingspan is 32-33 mm, the holotype has 32 mm. The forewings are light grey, with three dark dots located in the middle part of the wing. The costal edge of the wing is enlightened in the middle and darkened at the base. Near the top of the wing on the costal edge there is a dark elongated spot. The hindwings are monotonous light grey. The fringe on both wings is white, noticeably lighter than the background of the wings.

**Female genitalia.** The rear apophyses are short. The antrum is tubular, its bottom has a distinct oval notch, the edges of the antrum form claws (the shape of antrum resembles a tooth with fangs). The ductus is short and membranous. The copulatory pouch is oval, weakly sclerotized.

**Differential diagnosis.** In the female genitalia by the elongated antrum the species is close to *A. meridionalis* Zeller and *A. zhengi* Hao & Li, but clearly differs from the latter by sharp claws on the edges of the back margin of the antrum. The new species can also be distinguished from the latter by a larger size.

**Flight period.** July - August.

**Range.** Kyrgyzstan.

**Etymology.** The species is named after the hero of the Kyrgyz epics, Manas., It means “hero”.

*Agdistis rutjani* sp.n.

**Material.** Holotype, female, ZISP, gen. prep. 1794, Tian-Shan', vil. Dzhahalal-Abad, Tash-Kumyr, 650 m, 1.06.2003 – 1♀, E. Rutjan (col. pl. II: 2, 6).

**External characters.** The holotype: the head, thorax and tegulae are ash-grey. The labial palpi are very short and brushy. They are two times shorter than the eye diameter.

The length of the forewing is 13 mm. The wingspan is 27 mm. The forewings are ash-grey, with three dark dots located in the middle part of the wing. The costal edge of the wing is enlightened, near its top there are barely visible small dots. The hindwings are monotonous ash-grey. The fringe on both wings is white, noticeably lighter than the background of the wings.

**Female genitalia.** The rear apophyses are short. The antrum is short and wide, caliciform. On its sides there are two small outgrowths. The ductus near the antrum is wide, at its confluence with the bursa copulatrix it forms a sharp bend. The bursa is oval, weakly sclerotized.

**Differential diagnosis.** In the female genitalia, in general habitus the species is close to *A. karakalensis* Zag. and *A. karabachica* Zag., but clearly differs from the latter by the dome top of the 7th sternite, while the top of the 7th sternite in *A. karakalensis* Zag. has a distinct notch and *A. karabachica* Zag. has this top flattened and slightly wavy. The new species is also different from the latter by another shape of the antrum, by the ductus greatly widened near the antrum and by the short rear apophyses.

**Flight period.** June.

**Distribution.** Kyrgyzstan.

**Etymology.** The species is named after the Ukrainian entomologist Evgeni Rutjan, a known specialist in Lepidoptera: Psychidae.

*Gillmeria macrornis* (Meyrick, 1930)

*Platyptilia macrornis* Meyrick, 1930: 567. (Type locality: SE Kazakhstan)

*Platyptilia kerzhneri* Zagulajev & Pentschukowskaja, 1972: 688. (Type locality: Mongolia).

**Material.** Talas range, Maydantal gorge, 2230 m, 21.07.2000 – 2♂, I. Plusch.

**Range.** South-eastern European Russia, Central Asia, South Siberia, the Russian Far East (South Coastland), China: Shaanxi, Sichuan [Li, Hao, Wang, 2003], Mongolia.

*Gillmeria tetradactyla* (Linnaeus, 1761)

*Phalaena Alucita tetradactyla* Linnaeus, 1761: 370. (Type locality: Europe).

*Alucita ochrodactyla* Denis & Schiffermuller, 1775: 145. (Type locality: Austria).

**Material.** NE of Fergana range, 10 km SW of Alai val. East Kugart riv., 2000 m, 20.07.2000 – 2♂, S. Churkin; Talas Alatau range, 1300 m, 8.05.1991 – 1♂, Yu. Beskokotov; West Kyrgyzstan, Chatkal riv., vil. Aktash, 40 km S. of Yankee-Bazar, 1400 m, 1.07.1998 – 1 spec., I. Plusch; east. slope of Fergana range, Urumbash-East riv., 2-3 km NNE of pass Urumbash, to the light, 25.07.2005 – 6 spec., V. Dubatolov, E. Nikolaeva; Sary-Chelek, 1900 m, 20.06.2004 – 1♂, Danilevskiy; Toktogul reservoir, 915 m, 28.06.2008 – 1♀, P. Ustjuzhanin & V. Kovtunovich; 10 km to W of vil. Tuluk, 3 km N of pass Jamanbai-Bel', 1990m, N41°54', E73°28', 29-30.06.08 — 11 spec., Ustjuzhanin & V. Kovtunovich; Sary-Kamysh, 1250 m, 30.06.2008 – 2♂, P. Ustjuzhanin & V. Kovtunovich; Alai range, 10 km W of Gulcha, 1700 m, 9.07.2008 – 1♂, P. Ustjuzhanin & V. Kovtunovich.

**Range.** All Europe, south of Western Siberia, Tajikistan, Kyrgyzstan.

*Gillmeria pallidactyla* (Haworth, 1811)

*Alucita pallidactyla* Haworth, 1811: 478. (Type locality:

- Great Britain).
- Platyptilia sachalinensis* Matsumura, 1911: 58. (Type locality: Sakhalin, Russia).
- Platyptilia pallidiola* Matsumura, 1931: No. 2069. (Type locality: Japan).
- Range.** Europe, Siberia, Russian Far East, Turkmenistan, Kyrgyzstan, Uzbekistan, China, Japan, Korea, North America.
- Notes.** Specified for Kyrgyzstan from the literature [Arenberger, 2002].
- Platyptilia calodactyla*** (Denis & Schiffermüller, 1775)  
*Alucita calodactyla* Denis & Schiffermüller, 1775: 146. (Type locality: Austria).
- Material.** Kitshik-Alai range, Isfayram-Sai riv., 2750 m, 14-19.07.1999 – 6♂, E. Rutjan; Suusamyр-Too range, Ala-Bel' mts. gorge, Chuchkan riv. val., 1650 m, 8.07.2005 – 1♂, 1♀, E. Rutjan; Zaalai range, vil. Nura, 3200-3500 m, 18-31.07.2006 – 1♂, A. Sochivko; Alai range, Isfayram-Sai riv., tract Langar, 1900 m, 21.07.1999 – 1♂; 10 km W of vil. Tuluk, 3 km to N of pass Jamanbai-Bel', 1990 m, N41°54', E73°28', 29-30.06.2008 – 3♂, 2♀, P. Ustjuzhanin & V. Kovtunovich.
- Range.** Europe, Northern Africa, Asia Minor, Kazakhstan, Central Asia, Siberia, Russian Far East, China, Mongolia.
- Platyptilia longiloba*** Gibeaux, 1997  
*Platyptilia longiloba* Gibeaux, 1997: 422. (Type locality: Uzbekistan).
- Material.** Kashgaria, Taldy-Bulak creek, between Nura and Irkeshtam, to the light, 18.07.2003 – 1♂, V. Dubatolov, E. Nikolaeva.
- Range.** Uzbekistan, South Kyrgyzstan.
- Cnaemidophorus rhododactylus*** (Denis & Schiffermüller, 1775)  
*Alucita rhododactyla* Denis & Schiffermüller, 1775: 146. (Type locality: Austria).
- Platyptilia koreana* Matsumura, 1931: No. 2068. (Type locality: Japan and Korea).
- Material.** Chatkal riv. val., 15 km NE of Kanysh-Kiya, 1900 m, 15-16.07.2001 – 1♂, A. Zhdanko; Toktogul reservoir, 915 m, 28.06.2008 – 1♂, 1♀, P. Ustjuzhanin, V. Kovtunovich; Karagai-Bulak vil., Ysyk-Ata riv., 1300 m, 20-22.07.2011 – 1♂, 2♀, V. Ivonin.
- Range.** Europe, North Africa, the Caucasus, Kazakhstan, Central Asia, Siberia, south of the Russian Far East, Asia Minor, Japan, Korea, India, North America.
- Stenoptilia mannii*** (Zeller, 1852)  
*Pterophorus mannii* Zeller, 1852: 375. (Type locality: Turkey).
- Material.** Left bank of Chuchkan riv., 2 km of Ashuu-Bulak riv. mouth, 42°07'N 72°48' E, 1650-1700 m, 3.07.2000 – 1♀, V. Dubatolov.
- Range.** Europe, the Caucasus, Minor Asia, Uzbekistan, Kyrgyzstan.
- Stenoptilia pterodactyla*** (Linnaeus, 1761)  
*Alucita pterodactyla* Linnaeus, 1761: 370. (Type locality: Sweden)
- Material.** Inner Tian-Shan', north. slope of Moldo-Too range, 5 km N of pass Korogo, 1800 m, 16.07.1998 – 1♂, I. Plusch.
- Range.** Europe, Kazakhstan, Kyrgyzstan, Siberia, Russian Far East, North America.
- Stenoptilia veronicae*** Karvonen, 1932  
*Stenoptilia veronicae* Karvonen, 1932: 79. (Type locality: Finland).
- Stenoptilia agutsana* Ustjuzhanin, 1996: 374. (Type locality: South of Transbaikalie, Russia)
- Stenoptilia inexpectata* Gibeaux, 1995: 103. (Type locality: Orta-Kokpak, Kazakhstan) **syn.n.**
- Material.** Kyrgyz range, env. Bishkek, 7.07.2001 – 1♂, V. Dubatolov; Tian-Shan' range, Suusamyр, Ala-Bel' mts. gorge, Chuchkan riv. val., 1650 m, 29.07.2005 – 2♂, E. Rutjan.
- Range.** Northern Europe, Kyrgyzstan, Siberia, Russian Far East.
- Stenoptilia bipunctidactyla*** (Scopoli, 1763)  
*Phalaena bipunctidactyla* Scopoli, 1763: 257. (Type locality: Slovenia).
- Material.** Vil. Boru-Bash, 1,5 km N-W of Przhevalsk, 5.6.1982 – 1♀, Trystan.
- Range.** Europe, Kazakhstan, Central Asia, Siberia, Russian Far East.
- Stenoptilia nolckeni*** (Tengstrom, 1870)  
*Pterophorus nolckeni* Tengstrom, 1870: 366. (Type locality: Russia, Karelia).
- Pterophorus caesius* Snellen, 1884: 189. (Type locality: Irkutsk, Russia).
- Stenoptilia altaica* Arenberger, 2002: 137. (Type locality: Altai, Russia).
- Material.** Inner Tian Shan', Naryn riv. val., 15 km E of Naryn, 2250 m, 27-28.07.2000 – 1♂, S. Churkin; NE of Zaalai, Kaltabulak riv, 15 km SW of Irkeshtam, 3100 m, 16.07.2000 – 1♂ S. Churkin; Sary Jaz, Kaingda riv. val., near the mouth, to the light, 6.08.2003 – 1♀ V. Dubatolov, E. Nikolaeva; East slope of Fergana range, Urumbash-East riv., 2-3 km NNE of pass Urumbash, to the light, 25.07.2005 – 1♂, V. Dubatolov, E. Nikolaeva; Sary-Kamysh, 41°45'N, 73° 54' E, 1250 m, 30.06.2008 – 1♀; Tian-Shan', vil. Dzhahal-Abad, distr. Kotshkor-Ata, pag. Toskool Alash-Sai gorge vic., 1100 m, 30-31.05. 2003 – 1♂, E. Rutjan; Central Tian-Shan', Sursarym val., Tuluk vil. vic., Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 1♂, Ustjuzhanin, Kovtunovich; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 3♂, P. Ustjuzhanin V. Kovtunovich; Zaalai range, Taldy-Bulak creek, between Nura and Irkeshtam, 2900 m, 17.07.2008 – 2♂, P. Ustjuzhanin, A. Sochivko; right bank of Naryn riv., vil. Kazarman, 1500 m, 6-7.08.2008 – 2♂, 1♀, A. Sochivko.
- Range.** European part of Russia, Kazakhstan, Kyrgyzstan, Siberia, Russian Far East, Korea.
- Stenoptilia aktashiensis*** Gibeaux, 1997  
*Stenoptilia aktashiensis*, Gibeaux, 1997: 430. (Type locality: Uzbekistan).
- Material.** South Kyrgyzstan, NW part of Fergana range, Alash gorge, 1100 m, 7.07.1998 – 1♂, I. Plusch; North. Alai, the riverhead of Gultcha riv., Katta-Karakol riv. mouth vic., 15.07.2003 – 1♀, V. Dubatolov, E. Nikolaeva; Tian-Shan' range, Talas-Alatau, Kara-Buura mts. gorge, 3100-3350 m, 20.07.2000 – 3♂, E. Rutjan; Zaalai range, Nura vic., 3200-3500 m, 18-31.07.2006 – 1♀, Sochivko A; Chui reg., Karagai-Bulak vil., Ysyk-Ata riv., 1300 m, 20-23.07.2011 – 1♂, 1♀, V. Ivonin.



**Range.** Uzbekistan, Tajikistan, Kyrgyzstan, Kazakhstan, Turkmenistan.

***Stenoptilia caradjai*** Gibeaux, 1995

*Stenoptilia caradjai* Gibeaux, 1995: 96. (Type locality: Tajikistan).

**Material.** Alai range, Maydantau, vil. Maydan, 1700 m, 4.07.1998 – 2♂, I. Plusch; North. Alai, left slope of Gulcha riv., 3 km below the mouth of Katta-Karakol riv., 2500-3000 m, 13.07.2003 – 1♂, V. Dubatolov; east slope of Fergana range, Urumbash-East riv., 2-3 km NNE of pass Urumbash, to the light, 25.07.2005 – 1♂, V. Dubatolov, E. Nikolaeva; SW Alai, 10 km N of Daraut-Kurgan, road between the passes Shiman-Bel', Shiman and Tengizbay, 24.07.2003 – 1♂, R. Dudko; NE of Fergana Range, 10 km SW of Alai, East Kugart riv, 2000 m, 20.07.2000 – 1♂, S. Churkin; Central Tian-Shan', Suusarym val., Tuluk vil. vic., Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 1♀, P. Ustjuzhanin, V. Kovtunovich.

**Range.** Tajikistan, Kyrgyzstan, Kazakhstan.

***Stenoptilia coenei*** Gielis, 2000

*Stenoptilia coenei* Gielis, 2000: 127. (Type locality: Kyrgyzstan).

**Material.** Kyrgyz range, riverhead of Merke riv., 3000 m, 4.08.1998 – 1♂, A. Zhdanko; Tian-Shan' range, Suusamyр-Too, Ala-Bel' mts. gorge, Chuchkan riv. val., 1650 m, 8.07.2005 – 1♂, E. Rutjan.

**Range.** Kyrgyzstan.

***Stenoptilia transversata*** Gibeaux, 1995

*Stenoptilia transversata* Gibeaux, 1995: 99. (Type locality: Kyrgyzstan).

**Material.** West. Kyrgyzstan, Talas range, pass Kara-Buura, 2700 m, 26.06.1998 – 1♀, 17-20.07.2000 – 2♀, I. Plusch; Terskei Alatau, Orta-Kokpak riv., 2700 m, 10.07.1993 (V. Murzin); Kashgaria, Taldy-Bulak creek, between Nura and Irkeshtam, to the light, 18.07.2003 – 1♀, V. Dubatolov, E. Nikolaeva; the lower reaches of Archalsu riv., right affluent of Koksuv riv., 19-21.07.2003 – 1♂, Dubatolov and Ko; 5 km W of vil. Nura, Kaltabulak riv., 3100 m, 15.07.2008 – 6♂, 10 ♀♀; 3300 m, 18.07.2008 – 17♂, 18♀, P. Ustjuzhanin, A. Sochivko; Zaalai range, Taldy-Bulak creek, between Nura and Irkeshtam, 2900 m, 17.07.2008 – 1♀, P. Ustjuzhanin, A. Sochivko; 25 km S of Kara-Balta, Sosnovka, to the light, 14.08.1987 – 1♂, 1♀, A. Lwowskyi; Talas Alatau range, Manas mts., 2300-2450, 22-24.07.2000 – 1♂, E. Rutjan; Tian-Shan', Suusamyр-Too range, Kyrgyz mts. gorge, 3050-3200 m, 29-30.07.2000 – 1♂, E. Rutjan; Issyk-Kul' reg., 7 km N of Grigorievsk vil., Grigorievsk gorge, Karagai-Bulak range, Chan-Bulak mount., 2300 m, 27.07.2011 – 1♀, V. Ivonin.

**Range.** Kyrgyzstan, Kazakhstan.

***Stenoptilia etcetera*** Arenberger, 1998

*Stenoptilia etcetera* Arenberger, 1998: 297. (Type locality: Kyrgyzstan).

**Range.** Specified for Kyrgyzstan from the literature [Arenberger, 1998]; was not detected by us.

***Stenoptilia naryna*** Arenberger & Buchsbaum, 2000

*Stenoptilia naryna* Arenberger, 2000: 275 (Type locality: Kyrgyzstan).

**Material.** Zaalai range, Aram Kungei, 10-15.07.1992 –

1♂, A. Sochivko; 131 km S Osh, upper stream of Kichik-Alai riv., 3300 m, 25.06.2008 – 1♂, P. Ustjuzhanin, V. Kovtunovich; Zaalai range, 25 km SW of Daraut-Kurgan, 2800 m, 6.07.2008 – 8♂, 4♀, P. Ustjuzhanin, V. Kovtunovich; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 17♂, 12♀, P. Ustjuzhanin, V. Kovtunovich; 5 km W of vil. Nura, Kaltabulak riv., 3300 m, 15.07.2008 – 1♂, 3100 m, 18.07. 2008 – 1♀, P. Ustjuzhanin, A. Sochivko.

**Range.** Kyrgyzstan, Kazakhstan.

***Stenoptilia kirghizica*** Zagulajev, 2002

*Stenoptilia kirghizica* Zagulajev, 2002: 362 (Type locality: Kyrgyzstan).

**Material.** NE spurs of Suusamyр-Too range, Kobuksuu riv., 2500 m, 6.07.1987 – 1♂.

**Range.** Kyrgyzstan.

***Stenoptilia murzini*** Gibeaux, 1995

*Stenoptilia murzini* Gibeaux, 1995:101. (Type locality: Kyrgyzstan).

**Material.** 131 km S of Osh, upper stream of Kichik-Alai riv., 3300 m, 25.06.2008 – 5♂, P. Ustjuzhanin, V. Kovtunovich; Central Tian-Shan', Suusarym val, vil. Tuluk, Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 1♀, P. Ustjuzhanin, V. Kovtunovich; 5 km W of vil. Nura, Kaltabulak riv., 3100 m, 15.07.2008 – 1♀, P. Ustjuzhanin, A. Sochivko; Zaalai range, Nura vic., 3200-3500 m, 18-31.07.2006 – 1♂, A. Sochivko; North. Alai, left slope of Gulcha riv., 3 km below the mouth of Katta-Karakol riv., 2500-3000 m, 12.07.2003 – 1 ♀, V. Dubatolov; Issyk-Kul' reg., 7 km N of Grigorievsk vil., Grigorievsk gorge, Karagai-Bulak range, Chan-Bulak mount., 2300 m, 27.07.2011 – 2♂, V. Ivonin.

**Range.** Kyrgyzstan, Uzbekistan, Kazakhstan.

***Stenoptilia alaii*** Gibeaux, 1995

*Stenoptilia alaii* Gibeaux, 1995: 98. (Type locality: Tajikistan).

**Material.** Central Tian-Shan', Suusarym val., vil. Tuluk, Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 14♂, 4♀; Zaalai tange, Nura vic., 3200-3500 m, 18-31.07.2006 – 11♂, 2♀, A. Sochivko; Tian-Shan' range, Talas Alatau, Kara-Buura mts. gorge, 3100-3350 m, 19.07.2000 – 2♂, E. Rutjan; Tian-Shan', Suusamyр-Too range, Kyrgyz mts. gorge, 2850 m, 29.07.2000 – 1♂, E. Rutjan; Inner Tian Shan', W. Kokshaal Too, Kuldzha-Bashi, 3700 m, 24-26.07.2000 – 1♂, S. Churkin; Kashgaria, lower reaches of Archalsu riv., right affluent of Koksuv riv., 19-21.07.2003 – 1♂, V. Dubatolov, E. Nikolaeva.

**Range.** Kyrgyzstan, Tajikistan, Kazakhstan.

***Paraplatyptilia metzneri*** (Zeller, 1841)

*Pterophorus metzneri* Zeller, 1841: 783. (Type locality: Hungaria)

*Mariana gaji* Zagulajev, 1983: 119. (Type locality: N-W China, Xinjiang)

**Material.** 15 km E of Naryn, Naryn-Too range, 3000 m, 2.08.1981 – 1♂, S. Sinev; Terskey Alatau range, Karakol' gorge, 2000-2200 m, 26.07.1986 – 1♂, 2♀, I.Plusch; 80 km S. of Bishkek, log. Issyk-Ata, 17.07.1990 – 1♂, V. Zolotuchin; Tian-Shan', Kyrgyz range, Tjoo-Ashuu mts. gorge, 3150-3300 m, 12 – 15. 07. 2000 – 4♂, E. Rutjan; Tian-Shan', Kjungej Alatau range, Chong-Ak-Suu gorge,

2800-3000 m, 13.08.2000 – 1♀, E. Rutjan; Talas Alatau range, Manas mts, 2300-2450 m, 22.07.2000 – 1♂, E. Rutjan; Tian-Shan' range, Suusamy-Too, Kyrgyz mts. gorge, 3050-3200 m, 30 - 31.07.2000 – 2♂, 1♀, E. Rutjan; West Kyrgyzstan, Chatkal riv., 15.07.2001 – 3♂♂, A. Zhdanko; 10 km W of vil. Tuluk, 3 km N of pass Jamanbai-Bel', 1990 m, N41°54', E73°28', 29-30.06.2008 – 8♂, 3♀; North. Alai, upper stream of Gultcha riv., Katta-Karakol riv. mouth vic. 14.07.2003 – 1♂, V. Dubatolov, E. Nikolaeva; Kashgaria, Taldy-Bulak creek, between Nura and Irkeshtam, to the light, 16-18.07.2003 – 3♂, 1♀, V. Dubatolov, E. Nikolaeva; Central Tian-Shan', Suusarym val., Tuluk vil. vic., Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 9♂; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 1♂, P. Ustjuzhanin V. Kovtunovich; 5 km W of vil. Nura, Kaltabulak riv., 3100 m, 15.07.2008 – 8♂, 2♀, P. Ustjuzhanin, A. Sochivko; East Alai range, 15 km W of Nura, Koksuv. val., 3000 m, 16.07.2008 – 4♂, P. Ustjuzhanin, A. Sochivko; Zaalai range, Taldy-Bulak creek, between Nura and Irkeshtam, 2900 m, 17.07.2008 – 2♂, P. Ustjuzhanin, A. Sochivko; 5 km W of vil. Nura, Kaltabulak riv., 3300 m, 18.07.2008 – 1♂, 1♀, P. Ustjuzhanin; Zaalai range, Nura vic., 3200-3500 m, 18-31.07.2006 – 3♂♂, A. Sochivko; Alai range, Khaidarken town vic., Allauddin riv., 2850-3000 m, 01-12.07.2007 – 1♀, A. Sochivko; Issyk-Kul' reg., 7 km N of Grigorievsk vil., Grigorievsk gorge, Karagai-Bulak range, Chan-Bulak mount., 2300 m, 27.07.2011 – 2♂, 1♀; Chui reg., Karagai-Bulak vil., Ysyk-Ata riv., 1300 m, 21.07.2011 – 1♂, V. Ivonin.

**Range.** Europe, South Siberia, Kazakhstan, Central Asia, the Caucasus, Asia Minor, Iran, N-W China, Mongolia.

*Amblyptilia acanthadactyla* (Hübner, [1813])

*Alucita acanthadactyla* Hübner, [1813] (Type locality: Europe)

**Material.** Osh town, 5.07.1986 – 1♂, (the collector is not known); Kashgaria, the lower reaches of Archalsu riv., right affluent of Koksuv. riv., 19-21.07.2003 – 1♂, V. Dubatolov, E. Nikolaeva; Tian Shan' range, Suusamy, Ala-Bel' mts. gorge, Chuchkan riv. val., 1650-1700 m, 8.07.2005 – 1♀, E. Rutjan; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 1♂, P. Ustjuzhanin, V. Kovtunovich.

**Range.** Europe, Asia Minor, South Siberia, Central Asia.

*Amblyptilia grisea* Gibeaux, 1997.

*Amblyptilia grisea* Gibeaux, 1997: 424. (Type locality: Alma-Ata, Kazakhstan).

**Material.** Tian Shan' range, Suusamur-Too, Kyzyl Oj, 1800 m, 10.07.2000 – 1♀, E. Rutjan; Zaalai range, 25 km SW of Daraut-Kurgan, 2800 m, 6.07.2008 – 1♂, 1♀, P. Ustjuzhanin, V. Kovtunovich; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 2♂, P. Ustjuzhanin V. Kovtunovich.

**Range.** South Kazakhstan, Kyrgyzstan, Tajikistan, South Siberia, Mongolia.

*Marasmarcha colossa* Caradja, 1920.

*Marasmarcha colossa* Caradja, 1920: 84. (Type locality: East Turkestan [N-W China])

**Material.** Tian Shan' range, Suusamur-Too, Kowjuksu, Kyzyl Oj, 1650 m, 26.06.2000 – 1♂, S. Churkin; Inner Tian-Shan', north. slope of Moldo-Too range, 5 km N of Korogo range – 2 spec., I. Plusch; 70 km SW of Bishkek, Belogorka vil. vic, 25.07.1987 – 1♀, A. Lwowskyi; Central

Tian-Shan', Kekemeren val., 1430 m, 1.07.2008 – 9 spec., P. Ustjuzhanin & V. Kovtunovich.

**Range.** China (Xinjiang), South of European Russia, South of Western Siberia, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Afghanistan.

*Marasmarcha cinnamomea* (Staudinger, 1870)

*Pterophorus cinnamomeus* Staudinger, 1870: 326. (Type locality: "Sarepta" [Krasnoarmeisk], Russia).

*Marasmarcha glycyrrhizae* Zagulajev, 1969: 212. (Type locality: Armenia).

**Material.** 25 km S of Kara-Balta, Sosnovka, to the light, 13.08.1987 – 1♀, A. Lwowskyi; 70 km SW of Bishkek, Belogorka vil. vic., 24.07.1987 – 1♂, A. Lwowskyi.

**Range.** South-East of European Russia, the Crimea, the Caucasus, Kazakhstan, Kyrgyzstan, Afghanistan, China, South of Western Siberia.

*Procapperia kuldschaensis* (Rebel, 1914)

*Oxyptilus kuldschaensis* Rebel, 1914: 272. (Type locality: China, Xinjiang).

*Procapperia asiatica* Zagulajev, 1986: 87. (Type locality: Kyrgyzstan).

**Material.** South Kyrgyzstan, Naryn riv., 10 km N of Kara-Kul' town, 1020, m 15.07.1996 – 1♂, 1♀, I. Plusch; north. part of Fergana range, 10 km N of Kara-Kul' town, 1100 m, 6.07.1999 – 1♂, 1♀, I. Plusch; Inner Tian-Shan', Min-Kush vil. vic., 2300 m, 1.08.2000 – 1♀, I. Plusch; Chatkal riv. val., 15 km NE of Kanysh-Kiya, 1900 m, 15-16.07.2001 – 2♂, A. Zhdanko; Inner Tian Shan', Naryn riv. val., 15 km E of Naryn, 2250 m, 22.07.2001 – 1♀, S. Churkin; Tian-Shan' range, Suusamy-Too, Kyrgyz mts. gorge, 3050-3200 m, 29-30.07.2000 – 2♂, E. Rutjan; Tian-Shan', vil. Dzhahal-Abad, Tash-Kumyr, 850 m, 2.06.2003 – 2♀; Issyk-Kul', Kadzny-Sai vic., 1650 m, 4.05.2003 – 1♂, Tian-Shan', vil. Dzhahal-Abad, Tash-Kumyr, 950 m, Kyzyl-Dzhar vic., 15.05.2003 – 1♂, E. Rutjan; Sary-Chelek, 1900 m, 20.06.2004 – 3♂, 1♀, Danilevskiy; 131 km S of Osh, upper stream of Kichik-Alai riv., 3300 m, 25.06.2008 – 22 spec., 25 km S of Osh, 1700 m, 26.06.2008, 1550 m – 3 spec., Toktogul reservoir, 915 m, 28.06.2008 – 21 spec., Alai range, Batken reg., Kara-Bulak vil. vic., 3500 m, 15.07.2007 – 3♂, 1♀, A. Sochivko; 10 km W of Tuluk vil., 3 km N of pass Jamanbai-Bel', 1990 m, N41°54', E73°28', 29-30.06.2008 – 10 spec., Sary-Kamysh, 1250 m, 30.06.2008 – 22 spec., Central Tian-Shan', Kekemeren Valley, 1430 m, 1.07.2008 – 9 spec., Inner Tian Shan', Kyury-Sai Dam, 41°35' N, 72°33' E, 3.07.2008 – 6 spec., Zaalai Range, 25 km SW of Daraut-Kurgan, 2800 m, 6.07.2008 – 1♀, Alai Valley, 20 km SW of Daraut-Kurgan, 2700 m, 7.07.2008 – 2♂, 1♀; Zaalai Range, Aram-Kungei, 3000 m, 8.07.2008 – 9 spec., P. Ustjuzhanin, V. Kovtunovich; W. Tian-Shan', 30 km NW of Tash-Kumyr, 1400 m, 12.07.2008 – 2♂, 2♀, 5 km W of Nura vil. Kaltabulak riv., 3100 m, 15.07.2008 – 6♂, 10♀; 3300 m, 18.07.2008 – 2♂, P. Ustjuzhanin, A. Sochivko; Central Tian-Shan', right bank of Naryn riv., Kazarman vil. vic., 1500 m, 6-7.08.2008 – 6 spec., A. Sochivko.

**Range.** China (Xinjiang), Ukraine, Georgia, Turkey, Kyrgyzstan, Kazakhstan, Uzbekistan, Tajikistan, Mongolia, South Siberia (Altai, Kemerovo, Tuva), Afghanistan, Pakistan.

*Procapperia orientalis* Arenberger, 1988

*Procapperia orientalis* Arenberger, 1988: 24. (Type locality: India, Kashmir).

**Range.** India (Kashmir), Uzbekistan, Kyrgyzstan, Turkmenistan, Tajikistan.

**Notes.** Specified for Kyrgyzstan from the literature [Gibeaux, 1996].

*Capperia trichodactyla* (Denis & Schiffermüller, 1775)

*Alucita trichodactyla* Denis & Schiffermüller, 1775: 145. (Type locality: Austria).

**Material.** Naryn natural reserve, tract Iyri-Suu riv., 2500 m, 16.07.1987 – 1♂, V. Mironov; Tian-Shan', vil. Dzhalal-Abad, Tash-Kumyr, 950 m, Kyzyl-Dzhar vic., 15.05.2003 – 1♂, E. Rutjan.

**Range.** Europe, Kyrgyzstan, Siberia, Russian Far East, Japan, China (Heilongjiang).

*Capperia pluschi* sp. n.

**Material.** Holotype, male, ZISP, gen. prep. 1796, N - W Tian Shan', Pskemsky range, Koksuv riv., 1300-2300 m, 21-24.06.2004 – 1♂, Nikiphorov S. Leg. (col. pl. II: 3, 7).

**External characters.** The head, thorax and tegulae are brown grey. The labial palpi are quite long, almost two times longer than the eye diameter. They are straight, directed forward and upward, coloured in alternate brown and white bands. The antennae are variagated, white brown. The length of the forewing is 10,5 mm. The wingspan is 22 mm. The forewings are brown grey. On the first blade there are two bands, the band is narrow near the apical part and wide near the middle of the cleft. In the cleft base there is a white spot. On the second blade there are also two bands: the wide and narrow one. The fringe inside the cleft is greyish white. On the hind edge of the forewing the fringe is light grey with patches of dark flakes. The hindwings are monotonous brown-grey. The third blade has a spot of dark flakes near the apical part, the apex itself has a small and distinct dark spot. On the outer and inner edges of the third blade there are individual inclusions of dark flakes.

**Male genitalia.** The valvae have an oval cut in the basal part. There are distinct folds on their apexes. The tegumen is narrow and elongated. The uncus is short and narrow. The 8th sternite is long, distinctly narrowed behind its middle. It ends with two narrow pointed appendages. The aedeagus is S-curved, its end is slightly split.

**Differential diagnosis.** In the colour of wings the new species is similar to *Capperia bonneaui* Bigot, but is different from the latter by a larger size and by another location of dark flakes on the third blade of the hindwing. In the male genitalia, by the elongated 8th sternite the species is similar to *Capperia salanga* Arenb., but clearly differs from it by the shape of valvae and aedeagus.

**Flight period.** June.

**Range.** Uzbekistan.

**Etymology.** The species is named after the Ukrainian entomologist, Igor Plusch, a known specialist in Rhopalocera.

**Notes.** This species was collected in Uzbekistan, Tashkent region, the territory bordering with Kyrgyzstan, so we include it in this article.

*Oxyptilus chrysodactyla* (Denis & Schiffermüller, 1775)

*Alucita chrysodactyla* Denis & Schiffermüller, 1775: 320.

(Type locality: Austria).

*Oxyptilus perunovi* Ustjuzhanin, 1996: 385. (Type locality: Altai, Russia).

**Material.** Alai range, Maydantau, Maydan vil., 1700 m, 4.07.1998 – 1♂, I. Plusch; Issyk-Kul' reg., 7 km N of Grigorievsk vil., Grigorievsk gorge, Karagai-Bulak range, Chan-Bulak mount., 2300 m, 27.07.2011 – 1♂, V. Ivonin.

**Range.** Europe, the Caucasus, Siberia, Priamurye, Primorye, Sakhalin, China (Heilongjiang), Japan.

*Crombrugghia distans* (Zeller, 1847)

*Pterophorus distans* Zeller, 1847: 902. (Type locality: Italy).

*Oxyptilus supplementum* Gibeaux, 1997: 432. (Type locality: Uzbekistan).

**Material.** Central Tian-Shan', right bank of Naryn riv., Kazarman vil. vic., 1500 m, 6-7.08.2008 – 1♀, A. Sochivko.

**Range.** N. Africa, the Canare islands, Europe, the Caucasus, Asia, Minor, Iran, Afghanistan, India, the Himalaya, Central Asia, Kazakhstan, China, the southern Siberia.

*Crombrugghia tristis* (Zeller, 1839)

*Pterophorus tristis* Zeller, 1839: 277. (Type locality: Poland).

**Material.** 25 km S of Osh, 1700 m, 26.06.2008, 1550 m – 15 spec., P. Ustjuzhanin, V. Kovtunovich.

**Range.** Europe, the Caucasus, Central Asia, southern West Siberia, China (Shaanxi).

*Stangeia siceliota* (Zeller, 1847)

*Pterophorus siceliota* Zeller, 1847: 907. (Type locality: Sicily).

**Material.** Inner Tian Shan', Kyury-Sai Dam, N41°35', E72°33', 3.07.2008 – 1♀, P. Ustjuzhanin, V. Kovtunovich.

**Range.** Europe, the Caucasus, Asia Minor, Saudi Arabia, Yemen, Turkmenistan, Kyrgyzstan, Iraq, Iran, Afghanistan, China (Hunan).

*Hellinsia inulae* (Zeller, 1852)

*Pterophorus inulae* Zeller, 1852: 384. (Type locality: Poland).

**Material.** Central Tian-Shan', Kekemeran val., 1430 m, 1.07.2008 – 1♀, P. Ustjuzhanin, V.

Kovtunovich; Central Tian-Shan', right bank of Naryn riv., Kazarman vil. vic., 6.08.2008 – 1♀, A. Sochivko leg.

**Range.** Europe, North. Africa, Kazakhstan, Central Asia, Siberia.

*Hellinsia didactylites* (Strom, 1783)

(*Phalaena*) *Alucita didactylites* Strom, 1783: 89. (Type locality: Norway).

**Material.** Naryn natural reserve, tract Iyri-Suu riv., 2500 m, 17.07.1987 – 1♀, V. Mironov; Chatkal riv. val., 28.06.1988 – 2♂, I. Plusch; North. Alai, upper stream of Gulcha riv., Katta-Karakol riv. mouth, 14.07.2003 – 1♀, V. Dubatolov, E. Nikolaeva.

**Range.** Europe, Kazakhstan, Central Asia, Siberia, the Far East of Russia, China: Shaanxi, Jilin [Li, Hao, Wang, 2003].

*Hellinsia distinctus* (Herrich-Schäffer, 1855)

*Pterophorus distinctus* Herrich-Schäffer, 1855: 379. (Type locality: Germany).

*Pterophorus sibiricus* Caradja, 1920: 86. (Type locality: Symonowo, Amur region, Russia)

*Oidamatophorus acutus* Yano, 1963: 179. (Type locality:



Japan).

**Range.** Europe, Central Asia, Siberia, the Far East of Russia, Manchzhuria, Japan, China.

Note. Specified for Kyrgyzstan [Arenberger, 1995]; was not found by us.

***Hellinsia osteodactylus*** (Zeller, 1841)

*Pterophorus osteodactylus* Zeller, 1841: 851. (Type locality: Poland).

*Pterophorus korbi* Caradja, 1920: 86. (Type locality: Khabarowk, Russia).

*Pterophorus turbidellus* Caradja, 1920: 86. (Type locality: Uralsk, Kazakhstan).

*Pterophorus sophronistes* Meyrick, 1938: 170. (Type locality: China).

**Material.** South coast of Issyk-Kul' reservoir, East of Kara-Beltek Mts., to the light, 4.08.2003 – 1♂, V. Dubatolov, E. Nikolaeva.

**Range.** Europe, the Caucasus, Central Asia, Kazakhstan, Siberia, Russian Far East, Mongolia, China: Heilongjiang, Shandong, Shanxi, Xinjiang, Yunnan, Ningxia [Li, Hao, Wang, 2003], Japan.

***Hellinsia chrysocomae*** (Ragonot, 1875)

*Leioptilus chrysocomae* Ragonot, 1875: 113. (Type locality: France).

*Leioptilus gozmanyi* Bigot, 1970: 285. (Type locality: Mongolia).

**Material.** 25 km S of Kara-Balta, Sosnovka, to the light, 11.08.1987 – 1♀, A. Lwowskyi; 28.06.1997 – 1♀, I. Plusch; Inner Tian-Shan', Min-Kush vil. vic., 2300 m, 1.08.2000 – 1♂, I. Plusch; Inner Tian Shan', Naryn riv. val., 15 km E of Naryn, 2250 m, 27–28.07.2000 – 14 spec; NE of Fergana range, 10 km SW of Alai, East Kugart riv., 2000 m, 20.07.2000 – 2♂; Toktogul area, Karasu, 2100 m, 16.06.2000 – 3♀, S. Churkin; Tian-Shan', Kyrgyz range, Tjoo-Ashuu mts. gorge, 2200 m, 26.07.2000 – 1♀, E. Rutjan; Tian Shan', vil. Naryn, Chu riv., Orto-Tokoj reservoir, 1650 m, 7.07.2000 – 1♀, E. ; Alai range, Khaidarken town vic., Allauddin riv., 2850-3000 m, 01-12.07.2007 – 1♀, A. Sochivko; 131 km S of Osh, upper stream of Kichik-Alai riv., 3300 m, 25.06.2008 – 1♀; Central Tian-Shan', Suusarym val., Tuluk vil. vic., Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 1♂, 1♀; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 1♀, P. Ustjuzhanin & V. Kovtunovich; 5 km W of Nura vil., Kaltabulak riv., 3100 m, 15.07.2008 – 1♀; 5 km W of Nura vil., Kaltabulak riv. 3300 m, 18-19.07.2008 – 2♂, 3♀, P. Ustjuzhanin, A. Sochivko.

**Range.** Europe, the Caucasus, Kazakhstan, Central Asia, Siberia, Russian Far East, Mongolia, China.

***Hellinsia pectodactylus*** (Staudinger, 1859)

*Pterophorus pectodactylus* Staudinger, 1859: 258. (Type locality: Spain).

**Material.** Sary-Chelek, 900 m, 20.06.2004 – 3♂, 2♀, Danilevskiy; Kichik-Alai Range, Isfajram-Sai riv., 2750 m, 14-19.07.1999 – 1♂, E. Rutjan; south. slope of Moldo-Too range, upper part of Teke-Uyuk gorge, 29.07.2003 – 1♂, V. Dubatolov, E. Nikolaeva; 10 km W of Tuluk vil., 3 km N of pass Jamanbai-Bel', 1990 m, N 41°54', E 73°28', 29-30. 06. 2008 – 1♀, P. Ustjuzhanin & V. Kovtunovich.

**Range.** Europe, North. Africa, Kazakhstan, Kyrgyzstan,

Afghanistan, Nepal, India, Canada, U.S.A.

***Hellinsia pseudokorbi*** (Gibeaux, 1997)

*Oidaematophorus pseudokorbi* Gibeaux, 1997: 443. (Type locality: Uzbekistan).

**Material.** Ala-Myshik range, S of Naryn town, 5.08.1981 – 3♂, S. Sinev; Issyk-Kul' reg., Sary Jaz, north. slope of Kaindy range, Tashkoro, 2900 m, 23.07.1983 – 1♂, 13.07.1986 – 1♂; Alai range, Maydantau, Maydan vil., 1700 m, 4.07.1998 – 1♀, I. Plusch; NE of Zaalai, 15 km W of Ishtam, Koksuv riv., 3100 m, 17.07.2000 – 3♂; Inner Tian Shan', Naryn riv. val., 15 km E of Naryn, 2250 m, 27–28.07.2000 – 79 spec., S. Churkin; lower reaches of Archalsu riv., right affluent of Koksuv riv., 19-21.07.2003 – 2♂, 5♀, V. Dubatolov, E. Nikolaeva; Kashgaria, Taldy-Bulak creek, between Nura and Irkeshtam, to the light, 17-18.07.2003 – 4♂, 1♀; South. slope of Moldo-Too range, upper part of Teke-Uiuk gorge, 29.07.2003 – 1♂, V. Dubatolov, E. Nikolaeva; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 4♂, 3♀, P. Ustjuzhanin & V. Kovtunovich; East Alai range, 15 km W of Nura, Koksuv val., 3000 m, 16.07.2008 – 4♂, P. Ustjuzhanin, A. Sochivko.

**Range.** Uzbekistan, Kyrgyzstan.

***Oidaematophorus rogenhoferi*** (Mann, 1871)

*Pterophorus rogenhoferi* Mann, 1871: 79. (Type locality: Austria).

**Material.** Naryn town vic., 3-5.08.1981 – 2♂, S. Sinev; Kitshik-Alai range, Isfajram-Sai riv., 2750 m, 14-19.07.1999 – 2♂, E. Rutjan; Baidullu range, pass Dolon, 2100 m, 22-23.07.2001 – 1♂, 1♀, V. Dubatolov; Zaalai range, Aram-Kungei, 3000 m, 8.07.2008 – 1♀, P. Ustjuzhanin & V. Kovtunovich; South Kyrgyzstan, 5 km W of Nura vil., Kaltabulak riv., 3300 m, 18.07.2008 – 2♂, P. Ustjuzhanin.

**Range.** Europe, Central Asia, Siberia, Priamurye, Primorye, China (Heilongjiang).

***Oidaematophorus lithodactylus*** (Treitschke, 1833)

*Alucita lithodactyla* Treitschke, 1833: 245. (Type locality: Hungary).

**Material.** Tian Shan' range, Suusamy-Too, Kowjuksu, Kyzyl Oj, 1650m, 26.06. 2000 – 1♂, S. Churkin.

**Range.** Europe, Asia Minor, the Caucasus, Central Asia, Siberia, Priamurye, Primorye, Japan, China (Xinjiang).

***Emmelina monodactyla*** (Linnaeus, 1758)

*Phalaena Alucita monodactyla* Linnaeus, 1758: 542. (Type locality: Europe).

**Material.** Osh, 31.08.1980 – 1♂, 22.06.1982 – 1♀, 25.08.1982 – 3♂, 5♀, 6.09.1982 – 1♀, 22. 09. 1982 – 1♀, S. Rybin; 24.06.2008 – 1♀, V. Kovtunovich & P. Ustjuzhanin; Alai range, Maydantau, Maydan vil., 1700 m, 4.07.1998 – 2♂; Alai range, Isfairam-Sai, tract Langar, 1900 m, 13.07.1999 – 1♀; Inner Tian-Shan', north. slope of Moldo-Too range, 5 km N of pass Korogo, 1800 m, 16.07.1998 – 1♂, I. Plusch; Issyk-Kul', Kadzhy-Sai vic., 1650 m, 3-4.08.2000 – 1♂, 2♀, E. Rutjan; 2.08.2003 – 1♀, V. Dubatolov, E. Nikolaeva; the alpine camp "Dugoba", 20.07.1999 – 1♂, C. Chebatorev; 25 km S of Osh, 1700 m, 26.06.2008, 1550 m – 1♂; 10 km W of Tuluk vil., 3 km N of pass Jamanbai-Bel', 1990 m, N41°54', E73°28', 29-30.06.2008 – 1♂, 1♀; Sary-Kamysh, 1250 m, 30.06.2008 – 1♂; Central Tian-Shan', Kekemeran val., 1430 m,

1.07.2008 – 4♂, 2♀; Central Tian-Shan', Suousarym val., Tuluk vil. vic., Charya creek val., N42°15', E73°54', 2280 m, 2.07.2008 – 4♂, 1♀; Zaalai range, 25 km SW of Daraut-Kurgan, 2800 m, 6.07.2008 – 1♀; W. Tian-Shan', 30 km NW of Tash-Kumyr, 1400 m, 12.07.2008 – 2♂; Alai range, 5 km S of Gyulcha, 1800 m, 14.07.2008 – 1♂ P. Ustjuzhanin, V. Kovtunovich; Central Tian-Shan', right bank of Naryn riv., Kazarman vil. vic., 6.08.2008 – 1♀, A. Sochivko leg.; Tian-Shan', vil. Dzhahal-Abad, Kyayl-Unkur vic., Kara-Unkur riv. val., 1350 m, 18-20.05.2003 – 1♀, E. Rutjan; Alai range, vil. Batken, Kitshik-Alai range, 2800-3200 m, 12-19.07.2005 – 1♀, E. Rutjan; Sary-Chelek, 1900 m, 20.06.2004 – 1♀; Bishkek, 13.07.2004 – 1♂, Danilevskiy; Chui reg., Tokmak, 18.07.2011 – 1♂, Chui reg., Karagai-Bulak vil., Ysyk-Ata riv.- 20-23.07.2011 – 3♂, 2♀, V. Ivonin.

**Range.** North Africa, Europe, the Caucasus, Central Asia, Kazakhstan, southern Siberia, eastwards to Tuva, North America, China, Korea.

#### *Calyciphora ludmilae* sp.n.

**Material.** Holotype: ♂, ISEA, gen. prep. 201113, Kyrgyzstan, Kashgaria, Taldy-Bulak creek, between Nura and Irkeshtam vil., to the light, 18.07.2003, V. Dubatolov, E. Nikolaeva;

Paratype: 1♂, ZISP, gen. prep. 1795, ibidem; 1♂, Col. Ust. & Kovt., Kashgaria, lower reaches of Archalsu riv., right tributary of Koksuv riv., 19-21.07.2003, V. Dubatolov, E. Nikolaeva; 1 spec., (without abdomen), Col. Ust. & Kovt., Zaalai range, Taldy-Bulak creek, between Nura and Irkeshtam vil., 2900 m., 17.07.2008, P. Ustjuzhanin, A. Sochivko (col. pl. II: 4, 8).

**External characters.** The head and thorax are yellow brown, with a dark brown band between the head and the thorax. The labial palpi are short, light brown, directed upward. The antennae are thin, smooth, light yellow. The length of the holotype forewing is 11.5 mm. The wingspan is 24-25 mm. The forewings are yellow brown. The cleft is split to the middle of the wing. The costal edge of the first blade is distinctly darkened, there are two distinct dark brown strokes in its apical part, the first is above the middle of the cleft, the second is near the top. The cleft base has brown flakes. The fringe on the forewings is dark brown; only in the first third of the wing, on its inner edge, it is light yellow. The hindwings are monotonous brown, the fringe on them is slightly lighter than their main tone.

**Male genitalia.** The valvae are almost symmetrical. They differ only by a presence of a sclerotized harpae in the base of the left valva. It has an appendage shaped like a spike pointed at the top. The apexes of the valvae have ear-shaped membranous projections. Near them on the inner edge are small rod-like appendages. Costal processes on the inner edge of the valvae are distinct. The inner edge of the saccus has a well-defined circular notch. The anellus has two short wide branches. The uncus is long, thin, and pointed at the end. The aedeagus is thin, rather short, slightly winding.

**Differential diagnosis.** In the colour of wings the new species is similar to *Calyciphora xerodactyla* Zell., but differs from the latter by the presence of a dark spot on the top of the first blade. In the male genitalia in the shape of valvae the new species is similar to *Calyciphora*

*xanthodactyla* Tr., but differs clearly from the latter by the shape and size of the harpa on the left valva and by the shape of aedeagus.

**Flight period.** July.

**Range.** South Kyrgyzstan.

**Etymology.** The species is named after the wife of the first author of this article, Ludmila Ustyuzhanina.

***Tabulaephorus narynus*** Arenberger, 1993

*Tabulaephorus narynus* Arenberger, 1993: 320. (Type locality: Kyrgyzstan).

**Material.** 5 km SW of Naryn town, 26. 07.1981 – 1♂, S. Sinev; Kitshik-Alai range, Isfajram-Sai riv., 2750 m, 14-19.07.1999 – 1♂, E. Rutjan.

**Range.** Kyrgyzstan, Uzbekistan.

***Tabulaephorus hissaricus*** (Zagulajev, 1986)

*Pterophorus hissaricus* Zagulajev, 1986: 91. (Type locality: Tajikistan)

**Material.** W. Tian-Shan', 30 km NW Tash-Kumyr, 1400 m, 12.07.2008 – 1♂, P. Ustjuzhanin & A. Sochivko.

**Range.** Tajikistan, Uzbekistan, Kyrgyzstan.

***Tabulaephorus maracandicus*** Arenberger & Buchsbaum, 1998

*Tabulaephorus maracandicus* Arenberger & Buchsbaum, 1998: 288. (Type locality: Uzbekistan).

**Material.** Zaalai range, 25 km SW of Daraut-Kurgan, 2800 m, N 39.27', E 72.01' 6.07.2008 – 1♂, P. Ustjuzhanin, V. Kovtunovich.

**Range.** Uzbekistan, Tajikistan.

***Tabulaephorus decipiens*** (Lederer, 1870)

*Pterophorus decipiens* Lederer, 1870: 27. (Type locality: Iran, Astrabad).

*Pterophorus tristanae* Zagulajev, 1986: 93. (Type locality: Kyrgyzstan).

**Range.** Iran, Kyrgyzstan, the Caucasus, Armenia, Tajikistan.

**Notes.** Specified for Kyrgyzstan as *Pterophorus tristanae* Zagulajev [Zagulajev, 1986].

***Merrifieldia alaica*** (Caradja, 1920)

*Alucita alaica* Caradja, 1920: 81. (Type locality: Kyrgyzstan).

**Material.** Sary-Kamysh, 1250 m, 30.06.2008 – 1♂, Alai range; 10 km W of Gyulcha, 1700 m, 9.07.2008 – 1♂, P. Ustjuzhanin, V. Kovtunovich; W. Tian-Shan', 30 km NW of Tash-Kumyr, 1400 m, 12.07.2008 – 4♂, 2♀, P. Ustjuzhanin & A. Sochivko.

**Range.** Kyrgyzstan, Afghanistan.

***Merrifieldia baliodactylus*** (Zeller, 1841)

*Alucita tridactylus* Stephens, 1834: 373. (Type locality: England).

**Material.** Terskei Alatau, Karakol' gorge, 2000-2200 m, 26.07.1986 – 2♂, I. Plusch.

**Range.** Europe, the Caucasus, Kazakhstan, Kyrgyzstan, West Siberia, China (Xinjiang).

***Merrifieldia tridactyla*** (Linnaeus, 1758)

*Phalaena Alucita tridactyla* Linnaeus, 1758: 542. (Type locality: Europe).

**Material.** South. coast of Issyk-Kul' lake, East Karabeltok mts., to the light, 4.08.2003 – 1♂, V. Dubatolov, E. Nikolaeva.

**Range.** Europe, Asia Minor, Iran, the Caucasus, Central



Asia, Siberia.

***Merrifieldia malacodactyla*** (Zeller, 1847)

*Pterophorus malacodactylus* Zeller, 1847: 905. (Type locality: Italy).

**Material.** 10 km W of Tuluk vil., 3 km N of pass Jamanbai-Bel', 1990 m, N41°54', E73°28', 29-30.06.08 – 11 spec., P. Ustjuzhanin & V. Kovtunovich.

**Range.** Europe, Asia Minor, Iran, the Caucasus, Syria, Israel, Kazakhstan, Central Asia, Saudi Arabia, Iran, Iraq, Afghanistan.

***Merrifieldia caspia*** (Lederer, 1870)

*Pterophorus caspius* Lederer, 1870: 27. (Type locality: Iran).

**Material.** South. Kyrgyzstan, NW part of Fergana range, Alash gorge, 1100 m, 7.07.1988 – 1♂, 1♀; Inner Tian-Shan', Min-Kush vil. vic., 1.08.2000 – 2♂; NW spur of Fergana Range., Alash-Sai gorge, 1100 m, 6.07.1999 – 1♂; lower reaches of Naryn riv., 10 km N of Kara-Kul' town, 1020 m, 15.07.1986 – 3♂, 3♀; Alai range, Maydantau, Maydan vil., 1700 m, 4.07.1998 – 1♂, 1♀, I. Plusch; North. Alai, 16 km SSE of Gulcha vil., 2 km SE of Kyzyl-Korgon, karagan area, 1750 m, 11.07.2000 – 1♂; North. Alai, left slope of Gulcha riv., 3 km below the mouth of Katta-Karakol' riv., 2500-3000 m, 12.07.2003 – 1♀, V. Dubatolov; Tian Shan', vil. Naryn, Churiv., Orto-Tokoj reservoir, 1650 m, 7.07.2000 – 1♀; Issyk-Kul', Kadznyi-Sai vic., 1650 m, 8-9.07.2000 – 1♂, 1♀; Tian Shan' range, Suusamur-Too, Kyzyl Oj, 1800 m, 10.07.2000 – 1♂; Issyk-Kul', Kadznyi-Sai vic., 1650 m, 3-4.08.2000 – 1♂; Tian-Shan', vil. Dzhalal – Abad, Tash-Kumyr vic., loc. Ak-Mula, 850 m, 27.05.2003 – 1♂, 1♀, E. Rutjan; 30 km W of vil. Rybachie, Orto-Tokoi reservoir, 14.07.1998 – 1♀; 50 km N of Naryn town, Nura range, 16.07.1999 – 1♀, A. Zhdanko; Toktogul dam, 915 m, 28.06.2008 – 56 spec., 10 km W of Tuluk vil., 3 km N of pass Jamanbai-Bel', 1990 m, N41°54', E73°28', 29-30.06.08 – 21 spec., 25 km S of Osh, 1700 m, 26.06.2008, 1550 m – 7 spec.; Central Tian-Shan', Kekemeran val., 1430 m, 1.07.2008 – 5 spec., Inner Than Shan', Kyury-Sai Dam, N41°35', E72°33', 3.07.2008 – 12 spec., Alai range, 10 km W of Gyulcha, 1700 m, 9.07.2008 – 5 spec., P. Ustjuzhanin & V. Kovtunovich; W. Tian-Shan', 30 km NW of Tash-Kumyr, 1400 m, 12.07.2008 – 9 spec., P. Ustjuzhanin & A. Sochivko; Central Tian-Shan', right bank of Naryn riv., Kazarman vil. vic., 1500 m, 6-7.08.2008 – 5 spec., A. Sochivko.

**Range.** Iran, Turkey, Turkmenistan, Uzbekistan, Tajikistan, Kyrgyzstan, China (Xinjiang), India.

***Merrifieldia huberti*** Arenberger, 1999

*Merrifieldia huberti* Arenberger, 1999: 216. (Type locality: Kyrgyzstan).

**Material.** Issyk-Kul', Kadznyi-Sai vic., 1650 m, 9.07.2000 – 1♀; Inner Tian Shan', vil. Naryn, Kara-Kul' vic., pag. Kara-Kjol', 1000-1350 m, 12-14.05.2003 – 5♂, 1♀; Tian Shan' range, Suusamur-Too, Kyzyl Oj, 1800 m, 10.07.2000 – 1♀; Tian-Shan', vil. Dzhalal–Abad, distr. Kotskor-Ata, pag. Toskool vic., Alash-Sai gorge, 1100 m, 16-17.05.2003 – 1♂; Tian-Shan', vil. Dzhalal-Abad, prope Kyayl–Unkur, Kara-Unkur riv. val., 1350 m, 18-20.05.2003 – 1♀; Tian-Shan' occ. range Chatkal, Ala-Buka vic., Terek-Sai vic., Kazan-Saj riv. val., 2000 m, 24-26.05.2003 – 1♂; Tian-Shan', vil. Dzhalal–Abad, Tash-Kumyr vic., loc. Ak-Mula, 850 m, 27.05.2003 – 4♂, E. Rutjan; North. Alai, 16

km SSE of vil. Gulcha, 2 km SE of Kyzyl-Korgon, karagan area, 1750 m, 11.07.2000 – 1♂, V. Dubatolov.

**Range.** Kyrgyzstan.

***Wheeleria kasachstanica*** Arenberger, 1995

*Wheeleria kasachstanica* Arenberger, 1995: 84. (Type locality: Kazakhstan).

*Wheeleria orophila* Gibeaux, 1997: 437. (Type locality: Kazakhstan).

**Range.** Kazakhstan, Kyrgyzstan.

**Notes.** Specified for Kyrgyzstan from the literature [Gielis, 2003].

***Oirata nivella*** (Ustjuzhanin, 2001)

*Merrifieldia nivella* Ustjuzhanin, 2001: 22. (Type locality: Tajikistan).

**Material.** Sary Jaz, Kaingdy range, Tashkoro, 2600 m, 9.07.1985 – 5♂, I. Plusch.

**Range.** Tajikistan, Kyrgyzstan.

***Pterophorus pentadactyla*** (Linnaeus, 1758)

*Phalaena Alucita pentadactyla* Linnaeus, 1758: 542. (Type locality: Sweden).

**Range.** Europe, Asia Minor, Iran, the Caucasus, Central Asia, Kazakhstan, Kyrgyzstan, China: Jilin, Sichuan, Yunnan, Xinjiang, Taiwan [Li, Hao, Wang, 2003], West Siberia, Russian Far East.

**Notes.** Specified for Kyrgyzstan from the literature [Gielis, 2003], not detected by us.

**Notes:**

*Platyptilia aionis* Matsumura, 1931. We consider the record of this species from Kyrgyzstan [Arenberger, 2001] to be a mistake. According to our findings, this East Palearctic species is not found to the West of Transbaikalia.

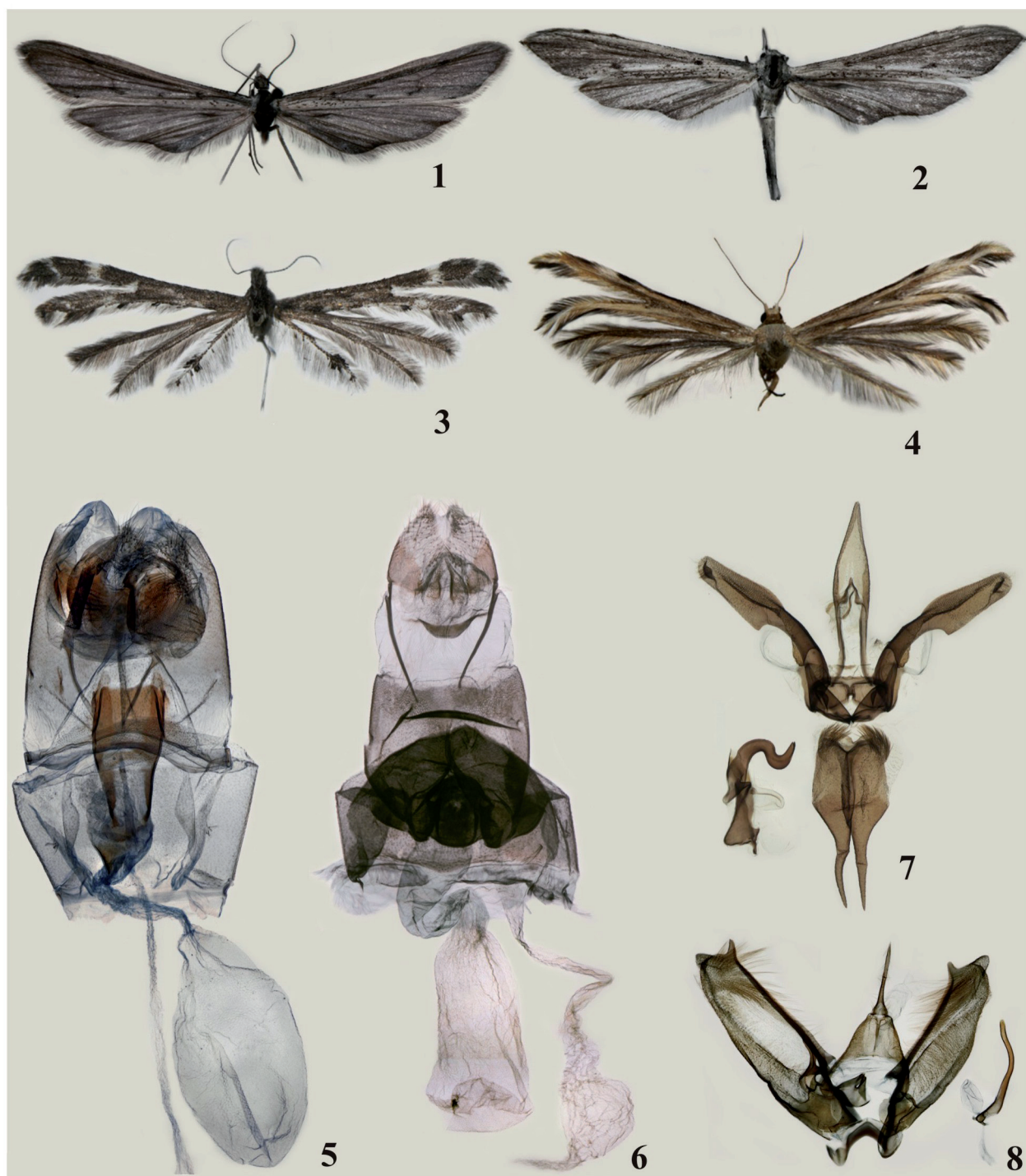
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New species of plume moths (Pterophoridae) from Kyrgyzstan. 1, 5. *Agdistis manas* sp. n. (1 – imago, 2 – female genitalia); 2, 6. *Agdistis rutjani* sp. n. (2 – imago, 6 – female genitalia); 3, 7. *Capperia pluschi* sp. n. (3 – imago, 7 – male genitalia); 4, 8. *Calyciphora ludmilae* sp. n. (4 – imago, 8 – male genitalia).

Новые виды пальцекрылок (Pterophoridae) из Киргизии. 1, 5. *Agdistis manas* sp. n. (1 – имаго, 2 – гениталии самки); 2, 6. *Agdistis rutjani* sp. n. (2 – имаго, 6 – гениталии самки); 3, 7. *Capperia pluschi* sp. n. (3 – имаго, 7 – гениталии самца); 4, 8. *Calyciphora ludmilae* sp. n. (4 – имаго, 8 – гениталии самца).