

## THE PTEROPHORIDAE FAUNA (LEPIDOPTERA) OF PAVLODAR REGION

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In present study we review the Pterophoridae family of Pavlodar region (the Republic of Kazakhstan). We sampled 30 species of 13 genera; 29 of them are listed for the first time for Pavlodar region.

Key words: Lepidoptera, Pterophoridae, Pavlodar Region, fauna, new data.

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## INTRODUCTION

In the recent years there were several studies on Pterophoridae of the Central Asia, carrying out an inventory of the fauna, identifying the composition and distribution of the species on the territory of Iran, Kyrgyzstan, Mongolia, Afghanistan: Alipanah & Ustjuzhanin (2005); Alipanah & Gielis (2010); Ustjuzhanin & Kovtunovich (2008); Ustjuzhanin & Kovtunovich (2011); Ustjuzhanin et al. (2014); Ustjuzhanin et al. (2016).

Literature provides almost no data on Pterophoridae of Pavlodar region. There is only one reference to *Agdistis tamaricis* Zeller for the city of Aksu, Arenberger (1995).

Pavlodar region is located in the north-eastern part of the Republic of Kazakhstan, in the middle basin of the river Irtysh between 54°27.5'—49°55'N and from 73°22' to almost 80°E. Its area is 127.500 km<sup>2</sup>. In the north and north-east it borders with the Russian Federation, Omsk and Novosibirsk regions, in the east - with the Altai Territory, in the south - with Karaganda and East Kazakhstan region, in the west - with the North Kazakhstan and Akmola regions. The territory of Pavlodar region belongs to the natural steppe zone.

The area of Pavlodar region is divided into two geomorphological portions: the larger which is the plain area including the south-eastern part of the West Siberian Plain (with altitudes predominantly in the range of 100-200 m) and the smaller formed by mountains and low hills, occupying about a third of the area in the south and representing by the north-eastern outskirts of Kazakhstan Upland with a peculiar broken topography and altitudes from 150 to 1055 m.

## MATERIAL AND METHODS

We conducted a series of special entomological expeditions for the collection of Pterophoridae in Pavlodar region. The trapping was carried out by modern methods on the remote and stationary "light traps". The insects were also collected by the air butterfly net over the vegetation between the start and end of the twilight. Some specimens were trapped on odorous wine baits.

The collections were performed in 7 districts of the studied region in 2008-2016 (Fig. 1).

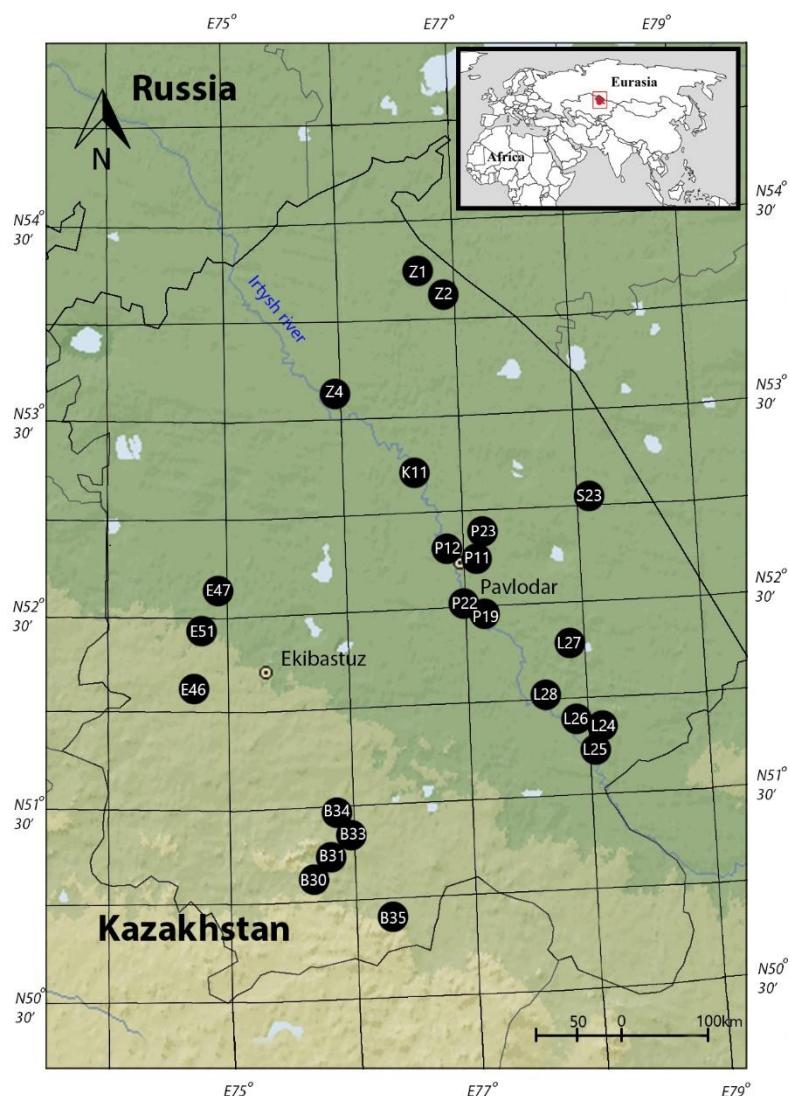


Figure 1. Map of distribution.

The examined material is stored in the authors' collections.

#### List of collecting

##### Zhelezinka district – Z

**Z/1** Michailovka – Michailovka vill., birch groves, 53°50'N 76°30'E, h=103m.

**Z/2** Krasnovka – Krasnovka vill., birch groves, 53°44'N 76°56'E, h=103m.

**Z/4** Moiseevka – Moiseevka vill., floodplain forest in the river Irtysh valley, 53°26'N 75°28'E, h=106m. (Fig. 3)

##### Kachiry district – K

**K/11** Baikony (kaz. Байқоныс) – Baikony vill., meadows, the Irtysh river valley, 52°56'N 76°23'E, h=93m.

##### Pavlodar district – P

**P/11** Pavlodar, urban area, 52°16'N 76°59'E, h=132m

**P/12** Pavlodarskoe vill., floodplain forest in the river Irtysh valley, 52°22'N 76°52'E, h=110m.

**P/19** Zjertumsyk (kaz. Жертуымсық) - village neighborhood, 52°02'N 77°08'E, h=122m, steppe, sand dunes.

**P/22** Baydala (kaz. Байдала) - village neighborhood, 52°08'N 77°03'E, h=111m., border damp meadows and steppes in the valley of the Irtysh River.

**P/23** Zhetekchi (kaz. Жетекчи) - village neighborhood 52°18'N 77°07'E, artemisia, feather grass steppe.

##### Shcherbakty district – S

**S/23** Sharbakty (kaz. Шарбакты), village neighborhood, steppe, 52°29'N 78°09'E, h=148m.

##### Lebyazhye district – L

**L/24** Tuz (kaz. Тұз) – Tuz lake, pinery, salt lake, salt lake, 51°17'N 78°37'E, h=168m.

**L25** border of Pavlodar and East Kazakhstan Regions, M-38 highway, 51°15' N 78°32' E, steppe near deciduous grove, h=172m.

**L/26** Shcherbakty (kaz. Шербакты) – village neighborhood, forest pinus, 51°50'N 78°30'E, h=161m.

**L/27** Borly (kaz. Борлы) – Borly salt lake, steppe, sogra, 51°49'N 77°56'E, h=135m.

**L/28** Akku (kaz. Аққу) - village neighborhood, 51°28'N 77°46'E, h=116m.

**Bayanaul district – B** (Fig. 2)



Figure 2. Biotope: Bayanaul district, Zhosaly village neighborhood, 50°23'N 76°10'E, h=735m.

**B/30** Kurkeli - (кaz. Құркелі) tract, 50°44'N, 75°38'E, mixed forest, outgrowth of shrubs, rocky outcrops, h=566m.

**B/31** Shonai (kaz. Шоңай) – the tract Shonai, 50°48'N 75°44'E. village neighborhood, h=478m.

**B/33** Toraigyr (kaz. Торайғыр) - mountains above the lake Toraigyr, 50°51'N 75°40'E, h=847m.

**B/34** Akbet (kaz. Қырғыш алаңы) - the tract Kirgichi, the mountain Akbet, 50°50'N 75°44'E, h=520m.

**B/35** Zhosaly (kaz. Жаңа Жосалы) village neighborhood, 50°23'N 76°10'E, h=735m (Fig. 3).

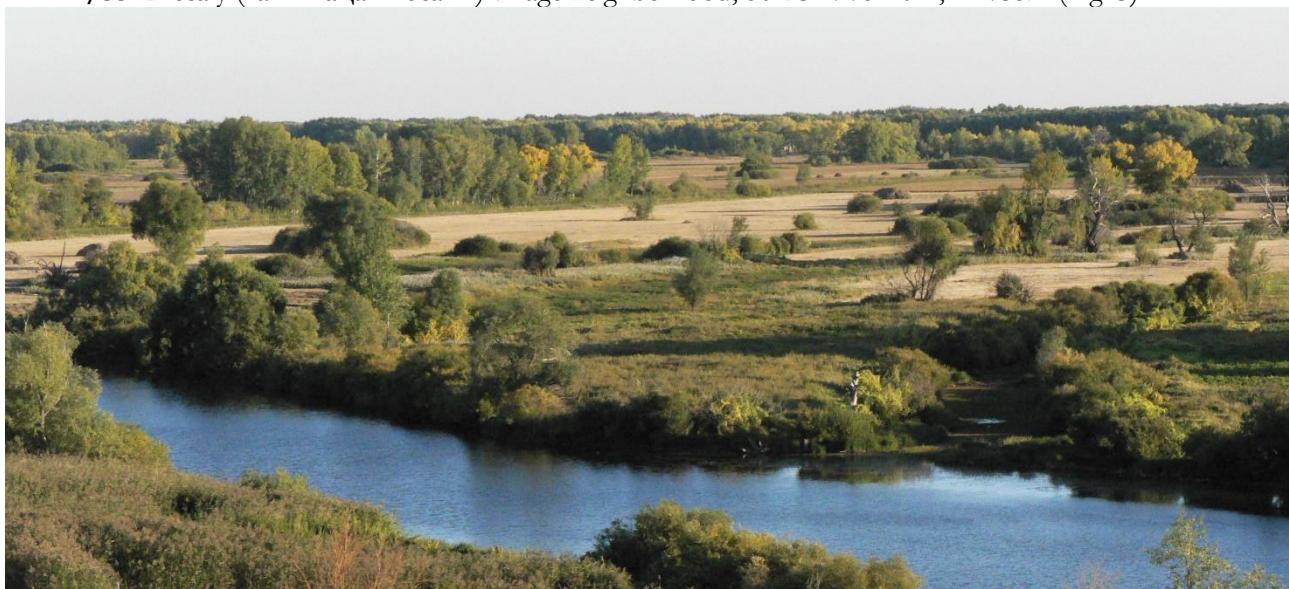


Figure 3. Biotope: Zhelezinka district, Moiseevka vill., floodplain forest in the river Irtysh valley, 53°26'N 75°28'E, h=106m.

**Ekibastuz district – E**

**E/46** Shiderty (kaz. Шідерти) – River Valley Shiderty, the tract Zhartas rocky steppe, hills, 51°38'N 74°39'E, h=245m.

**E/47** Karazhar (kaz. Қаражар) - Karazhar vill., Auliekol lake, steppe, 52°11'N 74°43'E, h=103m (Fig. 4).



Figure 4. Biotope: Ekibastuz district, Karazhar vill., Auliekol lake, steppe, 52°11'N 74°43'E, h=103m.

**E/51** Ul'ken Akzhar (kaz. Үлкен Ақжар) – May Distr., the riverbed of Shiderty, steppe, 52°03'N 74°19'E, h=103m.

**Annotated list of species*****Agdistis adactyla* (Hübner, [1819])**

*Alucita adactyla* Hübner, [1819]: t. 7, figs. 32-34. (Type locality: Austria).

**Material.** 4 ♂, 1 ♀, Shcherbakty, 11.viii.2013, 2 ♂, 10.viii.2014, 1 ♀, 19.viii.2014; 3 ex., Tuz, 9-12.viii.2014; 4 ex., Pavlodarskoe, 4.viii.2013, 5 ex., 13.vii.2015; 1 ♂, Moiseevka, 24-25.vii.2013; 2 ♂, 1 ♀, Shonai, 9-10.viii.2013; Titov S.; 1 ♀, Pavlodar, 20.vii.2012, Tarasovskaya N.

**Distribution.** Temperate zone of Palaearctics.

***Agdistis intermedia* Caradja, 1920**

*Agdistis benneti* var. *intermedia* Caradja, 1920: 88. (Type locality: Uralsk, Kazakhstan).

*Agdistis hungarica* Amsel, 1955: 53. (Type locality: Hungary).

**Material.** 3 ♀, Borly, 23.vi.2013; 1 ♂, Karazhar, 11.ix.2015, Titov S.

**Distribution.** Central Europe (Hungary), East Europe, Kazakhstan, south of Western Siberia.

***Agdistis kulunda* Ustjuzhanin, 1991**

*Agdistis kulunda* Ustjuzhanin, 1991: 85. (Type locality: Karasuk, SW Siberian, Russia).

**Material.** 1 ♂, Pavlodarskoe, 12.vii.2014, Titov S.

**Distribution.** South Western Siberia (the steppe areas of Omsk, Novosibirsk regions and Altai Territory), North Kazakhstan.

***Agdistis tamaricis* (Zeller, 1847)**

*Agdistis tamaricis* Zeller, 1847: 899. (Type locality: France).

**Distribution.** Europe, Turkmenistan, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Iran, Afghanistan, Pakistan, Mongolia, China (Tianjin, Hebei, Inner Mongolia, Shanghai, Shandong, Shaanxi, Gansu, Ningxia, Taiwan).

**Note.** Indicated for Aksu (Arenberger, 1995) but not found by us in Pavlodar region.

***Gillmeria macrornis* (Meyrick, 1930)**

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

*Platyptilia kerszhneri* Zagulajev, 1972: 688. (Type locality: Mongolia).

**Material.** 1 ♂, Pavlodarskoe, 03.ix.2015, Titov S.

**Distribution.** South-eastern European Russia, Central Asia, Kazakhstan, South Siberia, the Russian Far East, China (Shaanxi, Sichuan), Mongolia.

***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).

**Material.** 1 ♂, Shonai, 23.vii.2013; 1 ♀, Zhetekchi, Titov S.

**Distribution.** Europe, Siberia, Russian Far East, Turkmenistan, Kyrgyzstan, Uzbekistan, China, Japan, Korea, North America.

***Gillmeria rhusiodactyla* (Fuchs, 1903)**

*Platyptilia rhusiodactyla* Fuchs, 1903: 14. (Type locality: Yerevan, Armenia).

*Platyptilia armeniaca* Zagulajev, 1984: 46. (Type locality: Echmiadzin, Armenia).

*Gillmeria uralskinensis* Gibeaux, 1995: 91. (Type locality: Uralsk, W. Kazakhstan).

**Material.** 1 ♂, NE Kazakhstan, Road, Pavlodar-Semei, 200 m a.s.l., 1.vi.2013, Cernila M, Titov S, Volynkin A.

**Distribution.** Armenia, south of the European part of Russia, western Kazakhstan, Iran.

***Platyptilia calodactyla* ([Denis et Schiffermüller], 1775)**

*Alucita calodactyla* Denis & Schiffermüller, 1775: 146. (Type locality: Austria).

**Material.** 1 ♀, Baikonyr, 25.vi.2013; 1 ♂, 1 ♀, Michailovka, 9.vii.2013; 9 ex., Moiseevka, 24-25.vii.2013; 3 ex., Pavlodarskoe, 4.viii.2013; 1 ♂, Shonai, 24.vii.2014, Titov S.

**Distribution.** Temperate zone of Palaearctics.

***Platyptilia farfarella* Zeller, 1867**

*Platyptilus farfarellus* Zeller, 1867: 334. (Type locality: Poland).

**Material.** 1 ♂, Krasnovka, 3.vi.2012, Titov S., Bychkov V.

**Distribution.** Temperate zone of Palaearctics; Africa, Sri Lanka, Indonesia, Philippines.

***Stenoptilia bipunctidactyla* (Scopoli, 1763)**

*Phalaena bipunctidactyla* Scopoli, 1763: 257. (Type locality: Slovenia).

**Material:** 2 ♂, Pavlodarskoe, 4.viii.2013, Titov S.

**Distribution.** Temperate zone of Palaearctics.

***Stenoptilia eborinodactyla* Zagulajev, 1986**

*Stenoptilia eborinodactyla* Zagulajev, 1986: 113. (Type locality: Taganrog, Russia).

*Stenoptilia gratiolae* Gibeaux & Nel, 1990: 200. (Type locality: France).

**Material:** 11 ex., Moiseevka, 24-25.vii.2013, Titov S.; 4 ex., Pavlodarskoe, 13.vii.2015; 1 ♀, Bayanaul Mts., 75°44'E, 50°48' N, 9-10. viii.2013, Titov S., Knyazev S.

**Distribution.** Europe, south of Western Siberia.

***Stenoptilia pneumonanthes* (Büttner, 1880)**

*Mimesoptylus pneumonanthes* Buttner, 1880: 472. (Type locality: Poland).

**Material.** 3 ♀, Pavlodar, 3.vii.2012, 5 ex., 6.vii. 2012, 13 ex., 16-22.viii.2013, Tarasovskaya N.; 1 ♂, Pavlodarskoe, 3.ix.2013, Titov S.

**Distribution.** West Europe, European part of Russia, Yakutia, Kazakhstan, China (Xinjiang).

***Stenoptilia pterodactyla* (Linnaeus, 1761)**

*Alucita pterodactyla* Linnaeus, 1761: 370. (Type locality: Sweden)

**Material:** 1 ♀, Pavlodarskoe, 12.vii.2014, Titov S.

**Distribution.** Temperate zone of Palaearctics; North America.

***Stenoptilia stigmatodactyla* (Zeller, 1852)**

*Pterophorus stigmatodactylus* Zeller, 1852: 374. (Type locality: Austria).

**Material:** 1 ♂, Borly, 25.vi.2013; 2 ♂, Shcherbakty, 14.vi.2013, Titov S.

**Distribution.** Europe, Asia Minor and North Africa, Transcaucasia, Iran, Kazakhstan, South Siberia, Yakutia, Magadan region.

***Marasmarcha cinnamomea* (Staudinger, 1870)**

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

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

**Material:** 30 ex, Borly, 23.vi.2013; Titov S., Borisov S.; 1 ♂, Akbet, 23.vii.2013; 1 m., Pavlodarskoe, 12.vii.2014, 1 ♂, 03.viii.2015, 4 ex., 5.vi.2016; 1 ♂, Pavlodar, 27.07.2008; 1 ♂, Tuz, 12.viii.2014, Titov S.; 2 ex., Pavlodar env., floodplain of Irtysh, 21-28. vii. 2014, Blochin V.

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

***Marasmarcha colossa* Caradja, 1920**

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

**Material:** 4 ex., Pavlodarskoe, 12.vii.2014; 1 ♂, Kurkeli, 24.vii.2014; 5 ex., Toraigyr, 14.vi.2014, 2 ♂, 13.vii.2015, Titov S.; 22 ex., Pavlodar env., 21-28. vii. 2014, Blochin V.

**Distribution.** South of European Russia, South of Western Siberia, Kazakhstan, Kyrgyzstan, China

(Xinjiang), Tajikistan, Uzbekistan, Afghanistan.

***Marasmarcha rhypodactyla*** (Staudinger, 1870)

*Pterophorus rhypodactylus* Staudinger, 1870: 327. (Type locality: "Sarepta" [Krasnoarmeisk], Russia).

*Pterophorus ehrenbergiana* var. *decolorum* Caradja, 1920: 84. (Type locality: Turkey).

*Marasmarcha leucocrossa* Meyrick, 1936: 64. (Type locality: Iraq).

*Pterophorus terrenus* Meyrick. 1936: 64. (Type locality: Iraq).

**Material.** 1 ♂, Borly, 23.vi.2013; Titov S., Borisov S.; 1 ♂, Akbet, 23.vii.2013, Titov S.;

Pavlodar, 1 ex., 25.vii.2011, Tarasovskaya N.

**Distribution.** Turkey, Lebanon, Iraq, Iran, South-East of European Russia, West Siberia, Kazakhstan, West Mongolia.

***Oxyptilus parvidactyla*** (Haworth, 1811)

*Alucita parvidactyla* Haworth, 1811: 480. (Type locality: Great Britain).

**Material.** 5 ex., Toraigyr, 14.vi.2014; 1 ♂, 10.vi.2014; 1 ♂, Kurkeli, 12.vi.2013, Titov S.

**Distribution.** Europe, Asia Minor, the Caucasus, Iran, southern West Siberia.

***Crombrugghia distans*** (Zeller, 1847)

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

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

**Material.** 7 ex., Toraigyr, 14.vi.2014; 3 ♂, 2 ♀, Kurkeli, 12.vi.2013; 1 ♂, Shcherbakty, 10.viii.2014, 1 ♂, 1 ♀, 16.viii.2014; 1 ♂, Tuz, 19.viii.2014, Titov S.

**Distribution.** 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, 1841)

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

**Material.** 3 ♂, 2 ♀, Borly, 23.vi.2013; 1 ♂, Sharbakty, 11.viii.2013; 1 ♂, Shonai, 9-10.viii.2013; 1 ♂, Pavlodarskoe, 13.vii.2013, Titov S.

**Distribution.** Europe, Turkey, Syria, the Caucasus, Iran, Central Asia, southern West Siberia, China (Shaanxi).

***Capperia trichodactyla*** ([Denis et Shiffermüller], 1775)

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

**Material.** 1 ♂, Borly, 23.vi.2013, Titov S., Borisov S.; 2 ♂, 1 ♀, Shonai, 9-10.viii.2013; 1 ♀, Zhetekchi, Titov S.

**Distribution.** Europe, Kyrgyzstan, Kazakhstan (West Kazakhstan region), Southern Siberia, South of Russian Far East, Japan, China (Heilongjiang).

***Hellinsia carphodactyla*** (Hübner, [1813])

*Alucita carphodactyla* Hübner, [1813]: t. 4, fig. 19, 20. (Type locality: Europe).

**Material.** 1 ♂, Shonai, 17-18.viii.2013; 1 ♂, Borly, 23.vi.2013; 1 ♂, Akbet, 23.vii.2013; 5ex., Shcherbakty, 10.viii.2014; 1 ♂, 16.viii.2014; 2 ♂, Toraigyr, 14.vi.2014; 1 ♀, Tuz, 5.viii.2014, 1 ♂, 19.viii.2014; 1 ♂, Moiseevka, 24-25.vii.2013, Titov S.

**Distribution.** North Africa, Europe, the Caucasus, Central Asia, Kazakhstan, southern West Siberia.

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

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

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

**Material.** 1 ♀, Sharbakty, 11.viii.2013, Titov S.

**Distribution.** Europe, the Caucasus, Kazakhstan, Central Asia, South Siberia, the Far East of Russia, Mongolia, China.

***Hellinsia didactylites*** (Ström, 1783)

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

**Material.** 1 ♂, Akbet, 23.vii.2013; 1 ♀, Pavlodarskoe, 12.vii.2014; 1 ♀, Shcherbakty, 16.viii.2014, Titov S.

**Distribution.** Europe, the Caucasus, Kazakhstan, Central Asia, Siberia, the Far East of Russia, China: (Shaanxi, Jilin).

***Hellinsia distincta*** (Herrich-Schäffer, 1855)

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

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

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

**Material.** 2 ♂, Zhana Zhosaly, 25.vii.2014, Titov S.

**Distribution.** Europe, Armenia, Central Asia, Siberia, the Far East of Russia, Japan, China (Manzhuria, Jilin).

***Hellinsia trimmatodactyla*** (Christoph, 1872)

*Leioptilus trimmatodactylus* Christoph, 1872: 36. (Type locality: "Sarepta" [Krasnoarmeisk], Russia).

**Material.** 1 ♂, Moiseevka, 24-25.vii.2013; 13 ex., Pavlodarskoe, 4.viii.2013, 1 ♂, 03.ix.2015; 1 ♂, Toraigyr,

10.vi.2014; 1 ♂, Borly, 22.vi.2013, Titov S.

**Distribution.** South-East of European Russia, Western Kazakhstan, southern West Siberia, the steppes Altai, Tuva, West Mongolia.

***Tabulaeaphorus marptys*** (Christoph, 1873)

*Aciptilia marptys* Christoph, 1873: 37. (Type locality: "Sarepta" [Krasnoarmeisk], Russia).

*Aciptilia kaszabi* Bigot, 1967: 179. (Type locality: Central aimak, Mongolia).

**Material.** 3 ♂, Shcherbakty, 11.viii. 2013; 3 ♂, Tuz, 19.viii.2014, Titov S.; 3 ♂, Shiderty, 26.v.2015, Titov S., Cernila M., Kucinic M.; 4 ex., Zjertumsyk, 4.vi.2016,; 2 ♂ Pavlodarskoe, 5.vi.2016, Titov S.

**Distribution.** The south-eastern European part of Russia, Kazakhstan, Altai, Tuva, Mongolia, China.

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

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

**Material.** 1 ♀, Pavlodar, 25.vii.2011, Tarasovskaya N., 2ex., 27.viii.2013; 1 ♀, Pavlodarskoe, 14.viii.2013, 2 ex., 4.viii.2013, 2 ♀, 12.vii.2014, 6 ex., 3.ix 2013, 11 ex., 14.ix.2013, 4 ex., 2 ex., 3.ix.2015, 4 ex., 5.vi..2016; 1 ♀, Akbet, 23.vii.2013; 2 ex., Shcherbakty, 19.viii. 2014, Titov S.; 5 ex., Ul'ken Akzhar, 11.iv.2016; 2 ex., Shonai, 13.iv.2016; 5 ex., 18.iv.2016, Kurkeli, Titov S., Cernila M.; 2 ♂, 1 ♀, Zheteckchi, 17.vi.2016, Titov S.

**Жетекшілі**

**Distribution.** North Africa, Europe, the Caucasus, Central Asia, Kazakhstan, southern Siberia east to Tuva, Mongolia, China, India, Philippines, North and South America.

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

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

**Material:** 14 ex., Borly, 23.vi.2013; Titov S., Borisov S.; 8 ♂, Akbet, 23.vii.2013; 1 ♂, Shonai, 23.vii.2013; 3 ♂, 1 ♀, Kurkeli, 12.vi.2013, 1 ♀, 14.vi.2014; 1 ♂, Toraigyr, 10.vi.2014, Titov S.

**Distribution.** West Europe, the Caucasus, Turkey, Iran, Kazakhstan, European part of Russia, Southern Ural, South of Western Siberia, Western Yakutia.

***Pterophorus pentadactylus*** (Linnaeus, 1758)

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

**Material.** 1 ♀, Akku, 14.vii.2014, Lyakhov O.

**Distribution.** Europe, Asia Minor, Iran, the Caucasus, Central Asia, Kazakhstan, West Siberia, South of Russian Far East, China (Jilin, Sichuan, Yunnan, Xinjiang, Taiwan).

**DISCUSSION**

Thus, 30 Pterophoridae species are recorded for Pavlodar region. There is no doubt that this list is not final. The discovery of about 10-15 more species is quite possible in the examined region, in particular, from the genera *Platyptilia*, *Stenoptilia*, *Amblyptilia*, *Helliopsis* and *Merrifieldia*.

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