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## Contribution to the knowledge of the fauna of Kampinos National Park: Ptiliidae (Coleoptera: Staphylinioidea)

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### ABSTRACT

The paper provides new data on 30 species of Ptiliidae (Coleoptera: Staphylinioidea). Among them 19 species are new for the studied area. The occurrence of 9 species previously mentioned in literature was confirmed. Two species known from literature (*Millidium minutissimum*, *Ptenidium pusillum*) was not confirmed, but its presence within this area is beyond doubt. Thirteen species: *Acrotrichis pumila*, *A. silvatica*, *Nephanes titan*, *Smicrus filicornis*, *Ptenidium formicetorum*, *P. gressneri*, *P. intermedium*, *P. nitidum*, *Ptiliola kunzei*, *Ptiliolium fuscum*, *P. limbatum*, *Ptinella limbata* and *P. tenella* has been recorded from the Mazovian Lowland for the first time. One species - *Nephanes titan* (NEWMAN, 1834) figure in the "Red List of Threatened Animals in Poland" in the category EN (endangered).

**Keywords:** Ptiliidae, Kampinos National Park, faunistics, new records, Masovian Lowland, Central Poland

## 1. INTRODUCTION

Beetles of the family Ptilidae are not considered as widely popular among entomologists. Representatives of this family are among the smallest beetles - their main body length varying in the range of 0.4–1.3 mm. Additionally proper taxonomic identification often requires the analyses of copulatory organs, which with such small insects is a task demanding high skills and precision. Interestingly in Ptilidae, the female copulatory organ – spermatheca is considered the most useful for proper species identification.

Ptilidae most frequently inhabit decomposing organic matter such as drying feces, carrion, fermenting compost, decaying leaves and other plant matter, rotting fungi etc. Some species inhabit decomposing wood, tree hollows and bird, mammal and ant nests. A group of species prefer highly humid habitats – damp forest litter, mosses and edges of both fresh and salt water (halophilous species) bodies (Burakowski & al. 1978, 2000). One salt-dwelling species – *Ptenidium punctatum* is noted amongst Polish fauna (Gyllenhal, 1827).

To date, 66 species of Ptilidae representing 16 genera have been recorded from the territory of Poland (Burakowski & al. 1978, 2000; Löbl & Löbl 2015, Jałoszyński & Sörensson 2005, Komosiński & Marczak 2016). 21 species of Ptilidae have been noted from the area of the Mazovian Lowland: *Acrotrichis atomaria*, *A. brevipennis*, *A. dispar*, *A. fascicularis*, *A. grandicollis*, *A. intermedia*, *A. montadoni*, *A. nana*, *A. sericans*, *A. sitkaensis*, *Euryptilium saxonicum*, *Micridium halidaii*, *Millidium minutissimum*, *Nossidium pilosellum*, *Ptenidium fuscicorne*, *P. longicorne*, *P. pusillum*, *Pteryx splendens*, *P. suturalis*, *Ptilium myrmecophilum* and *Ptinella aptera* (Burakowski & al. 1978, 2000, Młynarski 1984, Majewski T. [2] 1996(1995), Sawoniewicz 2013, Jałoszyński & al. 2015, Komosiński & Marczak 2016). To date 11 species of Ptilidae have been found in Kampinos National Park: *Acrotrichis atomaria*, *A. brevipennis*, *A. fascicularis*, *A. nana*, *A. sericans*, *A. sitkaensis*, *Micridium halidaii*, *Millidium minutissimum*, *Ptenidium pusillum*, *Pteryx suturalis* and *Ptinella aptera* (Młynarski 1984, Sawoniewicz 2013, Jałoszyński & al. 2015, Komosiński & Marczak 2016).

## 2. MATERIAL AND METHODS

The aim of this study is to supplement the information regarding the occurrence of representatives of the mentioned families in Kampinos National Park.

The material was gathered by Dawid Marczak and Jakub Masiarz, the identification of species was performed by Karol Komosiński. Proof specimens can be found in the authors' and Kampinos National Park's collections. The following abbreviations were used in the text: SPA – Strict Protection Area, KNP – Kampinos National Park, IBL-2 trap – window trap, IBL-5 trap – barrier trap. IBL-2 traps were hung between trees or in spaces between large numbers of fallen dead trees, while IBL-5 traps were hung on dead trees. Each location was additionally described, in brackets, with the code of the relevant UTM square. Species new to the Mazovian Lowland were marked with an asterisk [\*]. Names were attributed according to Löbl & Löbl 2015.

The presented results were obtained thanks to the financial support of the Polish State Forests' "Forest Fund" as part of the following research projects: "The evaluation of the degree of naturalness of pine forests in Kampinos National Park based on the fauna of

saproxylic beetles” which was performed in the year 2014, “The evaluation of the degree of naturalness of oak-hornbeam forests in Kampinos National Park based on the fauna of saproxylic beetles” (2015) and “The evaluation of the degree of naturalness of chosen tree stands in Kampinos National Park based on the fauna of saproxylic beetles – stage III alder forests” (2016).

### 3. RESULTS – REVIEW OF THE SPECIES

#### 3. 1. Acrotrichinae Reitter, 1909

##### 3. 1. 1. *Acrotrichis (Acrotrichis) atomaria* (De Geer, 1774)

- OOS Debły, oddz. 242 (DC79), 1-30.04.2015, 1 ex., 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, 1 ex., collected by barrier trap hanging on an ash.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-31.05.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, 2 exx., collected by barrier trap hanging on an oak.

A frequently noted species found in several regions (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003). It inhabits damp habitats where it is most frequently found on moist mosses, also collected from underneath decaying plant matter, bird nests, anthills and feces (Burakowski & al. 1978, KOCH 1989).

##### 3. 1. 2. *Acrotrichis (Acrotrichis) brevipennis* (Erichson, 1845)

- OOS Debły, oddz. 242 (DC79), 1-30.04.2015, 6 exx., 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (1 ex.), ash (9 exx.), elm (1 ex.), 1-31.05.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (1 ex.), ash (3 exx.), 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: ash (1 ex.), elm (6 exx.), 1-31.07.2015, collected by barrier traps hanging on an deciduous trees: oak (1 ex.), hornbeam (2 exx.), elm (2 exx.), ash (1 ex.); oddz. 243 (DC79), 1-31.05.2016, 5 exx., 1-30.06.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-30.04.2016, 1 ex., 1-31.05.2016, 3 exx., 1-30.06.2016, 2 exx., 1-31.07.2016, 3 exx., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 100 (DC89), 1-30.06.2014, 2 exx., collected by window trap, habitat *Quercus roboris-Pinetum*; oddz. 121 (DC89), 1-31.05.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*; oddz. 120 (DC89), 1-31.05.2016, 2 exx., 1-30.06.2016, 4 exx., 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.04.2015, 3 exx., 1-31.05.2015, 4 exx., 1-30.06.2015, 6 exx., 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, 1 ex., 1-31.07.2015, 1 ex., collected by barrier trap hanging on an oak, 1-30.05.2015, 2 exx., 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-30.04.2016, 1 ex., 1-31.05.2016, 17 exx., 1-30.06.2016, 20 exx., 1-31.07.2016, 11 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 7 exx., 1-30.06.2016, 7 exx., 1-31.07.2016, 2 exx., collected by barrier trap hanging on an alder.

- OOS Kaliszki, oddz. 25 (DD80), 1-30.04.2014, 2 exx., collected by window trap, habitat *Quercus robur-Pinetum*, 1-31.05.2014, 1 ex., collected by barrier trap hanging on a pine, 1-31.05.2014, 1 ex., collected by Moericke's trap, habitat *Quercus robur-Pinetum*.

A species noted from several regions (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003, Sawoniewicz 2015). It inhabits damp habitats where it is found underneath decaying plant matter (Burakowski & al. 1978).

### 3. 1. 3. *Acrotrichis (Acrotrichis) dispar* (Matthews A., 1865)

- OOS Debły, oddz. 242 (DC79), 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Zaborów Leśny, oddz. 232 (DC89), 1-31.05.2016, 1 ex., collected by window trap, habitat *Ribes nigri-Alnetum*, 1-31.05.2016, 1 ex., collected by barrier trap hanging on an alder.

One of the most common species of Ptiliidae in Polish fauna, inhabits various habitats (Burakowski & al. 2000).

### 3. 1. 4. *Acrotrichis (Acrotrichis) fascicularis* (Herbst, 1793)

- OOS Debły, oddz. 242 (DC79), 1-31.05.2015, 1 ex., collected by barrier trap hanging on a hornbeam.

A frequently noted species found in several regions (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003). It dwells under decaying plant matter (Burakowski & al. 1978). A species inhabiting forest habitats (KOCH 1989).

### 3. 1. 5. *Acrotrichis (Acrotrichis) intermedia* (Gillmeister, 1845)

- OOS Debły, oddz. 242 (DC79), 1-31.05.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Sieraków, oddz. 100 (DC89), 1-30.04.2014, 2 exx., 1-31.07.2014, 1 ex., collected by window trap, habitat *Quercus robur-Pinetum*.
- OOS Kaliszki, oddz. 25 (DD80), 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus robur-Pinetum*, 1-31.07.2014, 1 ex., collected by barrier trap hanging on a pine.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*.

One of the most common species of Ptiliidae in Polish fauna, it inhabits forest ecosystems especially the forest litter of deciduous forests (Burakowski & al. 1978, Młynarski 1984).

### 3. 1. 6. *Acrotrichis (Acrotrichis) montandonii* (ALLIBERT, 1844)

- OOS Debły, oddz. 242 (DC79), 1-31.05.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, 1 ex., collected by barrier trap hanging on an ash, 1-31.05.2015, 2 exx., collected by barrier traps hanging on deciduous trees: ash (1 ex.) and oak (1 ex.).

- OOS Sieraków, oddz. 77 (DC89), 1-31.05.2014, 1 ex., collected by window trap, habitat *Quercus robur-Pinetum*; oddz. 100 (DC89), 1-30.06.2014, 13x., collected by window trap, habitat *Quercus robur-Pinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.04.2015, 1 ex., 1-31.05.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Kaliszki, oddz. 25 (DD80), 1-30.06.2014, 1 ex., collected by barrier trap hanging on an pine.

A frequently noted species found in several regions. It dwells under decaying plant matter (Burakowski & al. 1978).

### **3. 1. 7. *Acrotrichis (Acrotrichis) nana* Strand, 1946**

- OOS Sieraków, oddz. 121 (DC89), 1-30.06.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*.

To date noted in Poland only in the Masurian Lakeland (Sörensson 2007) and Mazovian Lowland (Komosiński & Marczak 2016). It inhabits dry pine forests growing on a sandy substrate. In such conditions it is most often found in decaying animal remains (Vorst & Sörensson 2005).

### **3. 1. 8. *Acrotrichis (Acrotrichis) pumila* (Erichson, 1845)\***

- OOS Debły, oddz. 243 (DC79), 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.

A rare species noted in only 6 regions: the Baltic Seaside, Pomeranian Lakeland, Wielkopolsko-Kujawska Lowland, Lower Silesia, Upper Silesia and Western Beskid, but most observations took place in the second half of the XIX th century (Burakowski & al. 1978, Młynarski 1984). Collected from gardens, swamplands, compost, manure and also in rotting tree stumps and spruce brushwood (KOCH, 1989).

New to the Mazovian Lowland.

### **3. 1. 9. *Acrotrichis (Acrotrichis) sericans* (Heer, 1841)**

- OOS Debły, oddz. 243 (DC79), 1-30.04.2016, 1 ex., collected by barrier trap hanging on an alder.

A frequently noted species found in several regions (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003). It dwells underneath decaying plant matter (Burakowski & al. 1978).

### **3. 1. 10. *Acrotrichis (Acrotrichis) silvatica* ROSSKOTHEN, 1935\***

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 2 exx., 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Sieraków, oddz. 77 (DC89), 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus robur-Pinetum*; oddz. 100 (DC89), 1-30.04.2014, 1 ex., 1-31.05.2014, 1 ex., 1-30.06.2014, 2 exx., 1-31.07.2014, 1 ex., collected by window trap, habitat *Quercus*

*roboris-Pinetum*; oddz. 121 (DC89), 1-31.05.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.

A rare species known from only eight regions (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003). Collected from underneath decaying plant matter, carrion, feces and bird nests (Burakowski & al. 1978, KOCH, 1989).

New to the Mazovian Lowland.

### 3. 1. 11. *Acrotrichis (Acrotrichis) sitkaensis* (Motschulsky, 1845)

- OOS Debły, oddz. 242 (DC79), 1-30.04.2015, 25 exx., 1-31.05.2015, 4 exx., 1-30.06.2015, 9 exx., 1-31.07.2015, 4 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (1 ex.), ash (12 exx.), elm (2 exx.), oak (1 ex.), 1-31.05.2015, collected by barrier traps hanging on an deciduous trees: elm (5 exx.), hornbeam (3 exx.), ash (2 exx.), 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (14 exx.), ash (16 exx.), oak (1 ex.), elm (1 ex.), 1-31.07.2015, 9 exx., w pułapkę IBL-5 zawieszoną na jesionie collected by barrier trap hanging on an ash; oddz. 243 (DC79), 1-30.04.2016, 1 ex., 1-31.05.2016, 8 exx., 1-30.06.2016, 6 exx., 1-31.07.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 11 exx., 1-30.06.2016, 13 exx., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 100 (DC89), 1-30.04.2014, 1 ex., collected by window trap, habitat *Quercu roboris-Pinetum*, oddz. 121 (DC89), 1-31.05.2015, 1 ex., 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, 1 ex., 1-31.07.2015, 1 ex., collected by barrier trap hanging on an hornbeam; oddz. 120 (DC89), 1-30.06.2016, 3 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-30.04.2016, 1 ex., 1-30.06.2016, 7 exx., 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.04.2015, 11 exx., 1-31.05.2015, 9 exx., 1-30.06.2015, 11 exx., 1-31.07.2015, 6 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2011, 2 exx., collected by barrier trap hanging on an oak, 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-30.04.2016, 4 exx., 1-31.05.2016, 7 exx., 1-30.06.2016, 4 exx., 1-31.07.2016, 2 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-30.04.2016, 2 exx., 1-31.05.2016, 2 exx., 1-30.06.2016, 12 exx., collected by barrier trap hanging on an alder.

Known from only 9 regions (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003). Found in swampy areas where it dwells underneath decaying plant matter (Burakowski & al. 1978). The fact that it is found on numerous sites in Białowieża Forest (Majewski T. [1] 2003) and the listed above sites in Kampinos Forest leads to the assumption that it is widely distributed in well preserved forest ecosystems. Młynarski (1984) considers it to be a frequently occurring species.

### 3. 1. 12. *Acrotrichis (Ctenopteryx) grandicollis* (Mannerheim, 1844)

- OOS Debły, oddz. 242 (DC79), 1-30.04.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.

A species known from several regions including several dozens of sites in Białowieża Forest (Burakowski & al. 1978, Młynarski 1984, Majewski T. [1] 2003). Found underneath decaying plant matter, in feces, compost also noted on carrion (Burakowski & al. 1978, Młynarski 1984).

**3. 1. 13. *Baeocrara variolosa* (Mulsant et Rey, 1861)\***

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 1 ex., 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*.

A species known only from Lower Silesia and Western Sudetes (Burakowski & al. 1978), with all observations dating back to the beginning of the XX th century. Lately discovered in Białowieża Forest (Borowski 2001).

New to the Mazovian Lowland.

**3. 1. 14. *Nephanes titan* (Newman, 1834)\***

- OOS Zaborów Leśny, oddz. 232 (DC89), 1-30.06.2016, 1 ex., collected by barrier trap hanging on an alder.

Known from few sites located in 4 regions: the Wielkopolsko-Kujawska Lowland, Western Beskid, Lower Silesia, Eastern and Western Sudetes (Burakowski & al. 1978) with most observations dating back 100 years. Listed in the Polish Red Data Book of Endangered species under the category EN – endangered Pawłowski & al. 2002).

New to the Mazovian Lowland.

**3. 1. 15. *Smicrus filicornis* (Fairmaire et Laboulbène, 1855)\***

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*; oddz. 243 (DC79), 1-31.05.2016, 2 exx., collected by barrier trap hanging on an alder.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 1 ex., 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*; oddz. 232 (DC89), 1-31.05.2016, 5 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*.

A species known only from Lower Silesia and Western Sudetes (Burakowski & al. 1978), with all observations dating back to the beginning of the XX th century.

New to the Mazovian Lowland.

**3. 2. Ptiliinae Erichson, 1845**

**3. 2. 1. *Euryptilium saxonicum* (Gillmeister, 1845)**

- OOS Sieraków, oddz. 77 (DC89), 1-31.05.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*; oddz. 100 (DC89), 1-31.05.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam.

A species known only from the Mazovian Lowland and Western Sudetes (Burakowski & al. 1978), with all observations dating back to the beginning of the XX th century.

### 3. 2. 2. *Micridium halidaii* (Matthews A., 1868)

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: oak (2 exx.), elm (2 exx.), hornbeam (1 ex.); oddz. 243 (DC79), 1-31.05.2016, 4 exx., 1-30.06.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 77 (DC89), 1-31.07.2014, 4 exx., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-31.05.2014, 1 ex., 1-30.06.2014, 6 exx., 1-31.07.2014, 1 ex., collected by barrier trap hanging on an pine; oddz. 100 (DC89), 1-31.05.2014, 2 exx., 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-31.05.2014, 3 exx., 1-30.06.2014, 3 exx., 1-31.07.2014, 1 ex., collected by barrier trap hanging on an pine; oddz. 121 (DC89), 1-31.05.2015, 1 ex., 1-30.06.2015, 7 exx., 1-31.07.2015, 2 exx., collected by barrier trap hanging on an oak; oddz. 120 (DC89), 1-31.05.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-31.05.2015, 5 exx., 1-30.06.2015, 11 exx., 1-31.07.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-31.05.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (7 exx.), oak (1 ex.), 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (4 exx.), oak (2 exx.), 1-31.07.2015, 2 exx., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-30.06.2016, 3 exx., 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Kaliszki, oddz. 25 (DD80), 1-31.05.2014, 4 exx., 1-30.06.2014, 3 exx., 1-31.07.2014, 3 exx., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-31.05.2014, 3 exx., 1-30.06.2014, 3 exx., collected by barrier trap hanging on an pine.

Till recently considered extinct in Poland (Pawłowski & al. 2002), lately rediscovered in the Mazovian Lowland (Jałoszyński & al. 2015).

### 3. 2. 3. *Nossidium pilosellum* (Marsham, 1802)

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Sieraków, oddz. 100 (DC89), 1-31.05.2015, 1 ex., collected by barrier trap hanging on an oak.

A saproxylic species known from only a few regions but currently confirmed only in Białowieża Forest (Borowiec & al. 1992, Borowski 2001).

### 3. 2. 4. *Ptenidium (Gillmeisterium) nitidum* (Heer, 1841)\*

- OOS Debły, oddz. 242 (DC79), 1-30.04.2015, 1 ex., 1-31.05.2015, 25 exx., 1-30.06.2015, 12 exx., 1-31.07.2015, 3 exx., collected by window trap, habitat *Tilio-Carpinetum*; 31.05.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (2 exx.), elm (1 ex.), 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (3 exx.), ash (2 exx.), 1-31.07.2015, collected by barrier traps hanging on an deciduous trees: elm (1 ex.), ash (1 ex.), hornbeam (1 ex.); oddz. 243 (DC79), 1-



31.05.2016, 18 exx., 1-31.07.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 3 exx., 1-30.06.2016, 9 exx., 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder`.

- OOS Sieraków, oddz. 100 (DC89), 1-30.06.2014, 3 exx., collected by window trap, habitat *Quercu roboris-Pinetum*; oddz. 121 (DC89), 1-31.05.2015, 3 exx., 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-31.05.2015, 13 exx., 1-30.06.2015, 12 exx., 1-31.07.2015, 3 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam, 1-31.07.2015, 1 ex., collected by barrier trap hanging on an oak; oddz. 232 (DC89), 1-31.05.2016, 1 ex., 1-30.06.2016, 2 exx., 1-31.07.2016, ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-30.06.2016, 3 exx., 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.

A species known from several regions including several dozen sites in Białowieża Forest (Burakowski & al. 1978, Majewski T. [1] 2003). Found under decaying plant matter (Burakowski & al. 1978).

New to the Mazovian Lowland.

### 3. 2. 5. *Ptenidium (Gressnerium) gressneri* Erichson, 1845\*

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.
- OOS Sieraków, oddz. 120 (DC89), 1-30.06.2016, 4 exx., 1 ex., collected by barrier trap hanging on an alder.

A species known from over a dozen regions (Burakowski & al. 1978).

New to the Mazovian Lowland

### 3. 2. 6. *Ptenidium (Ptenidium) formicetorum* Kraatz, 1851\*

- OOS Sieraków, oddz. 77 (DC89), 1-31.05.2014, 3 exx., 1-30.06.2014, 1 ex., 1-31.07.2014, 1 ex., collected by window trap, habitat *Quercu roboris-Pinetum*; oddz. 100 (DC89), 1-30.06.2014, 1 ex., collected by barrier trap hanging on an pine, 1-31.07.2014, 1 ex., collected by window trap, habitat *Quercu roboris-Pinetum*.
- OOS Kaliszki, oddz. 25 (DD80), 1-31.05.2014, 1 ex., collected by window trap, habitat *Quercu roboris-Pinetum*, 1-31.05.2014, 1 ex., collected by barrier trap hanging on an pine.

A species probably distributed throughout the whole country but in many regions its occurrence has not yet been confirmed (Burakowski & al. 1978).

New to the Mazovian Lowland.

### 3. 2. 7. *Ptenidium (Ptenidium) fuscicorne* Erichson, 1845

- OOS Debły, oddz. 242 (DC79), 1-31.05.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-31.05.2015, 1 ex., collected by barrier trap hanging on an oak, 1-31.06.2015, 1 ex., collected by barrier trap hanging on an elm; oddz. 243 (DC79), 1-31.05.2016, 2 exx., 1-30.06.2016, 1 ex., w pułapkę IBL-5 collected by barrier trap hanging on an alder.

- OOŚ Zaborów Leśny, oddz. 269 (DC89), 1-31.05.2015, 2 exx., 1-30.06.2015, 5 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, 2 exx., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-31.05.2016, 6 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 7 exx., collected by barrier trap hanging on an alder.

A species known from several regions including several dozen sites in Białowieża Forest (Burakowski & al. 1978, Majewski T. [1] 2003). Found under decaying plant matter (Burakowski & al. 1978).

### 3. 2. 8. *Ptenidium (Wankowizium) intermedium* Wańkiewicz, 1869\*

- OOŚ Debły, oddz. 242 (DC79), 1-31.05.2015, 2 exx., 1-30.06.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-31.05.2015, 2 exx., 1-31.07.2015, 1 ex., collected by barrier trap hanging on an ash, 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam; oddz. 243 (DC79), 1-31.05.2016, 3 exx., 1-30.06.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 21 exx., 1-30.06.2016, 3 exx., collected by barrier trap hanging on an alder.
- OOŚ Sieraków, oddz. 120 (DC89), 1-30.04.2016, 1 ex., 1-30.06.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 2 exx., collected by barrier trap hanging on an alder.
- OOŚ Zaborów Leśny, oddz. 269 (DC89), 1-30.04.2015, 5 exx., 1-31.05.2015, 27 exx., 1-30.06.2015, 4 exx., 1-31.07.2015, 3 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.04.2015, 1 ex., collected by barrier trap hanging on an oak, 1-31.05.2015, 1 ex., 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-31.05.2016, 21 exx., 1-30.06.2016, 9 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-31.05.2016, 14 exx., 1-30.06.2016, 3 exx., collected by barrier trap hanging on an alder.

An extremely rare species of beetle in Poland, known from only 4 regions: Western Sudetes, Lower Silesia, Kujawsko-Wielkopolska Lowland and Białowieża Forest (Burakowski & al. 1978).

New to the Mazovian Lowland.

### 3. 2. 9. *Pteryx splendens* Strand A., 1960

- OOŚ Debły, oddz. 242 (DC79), 1-30.06.2015, 2 exx., 1-31.07.2015, 1 ex., collected by barrier trap hanging on an ash; oddz. 243 (DC79), 1-30.06.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOŚ Sieraków, oddz. 77 (DC89), 1-30.06.2014, 2 exx., 1-31.07.2014, 4 exx., collected by window trap, habitat *Quercus robur-Pinetum*; oddz. 100 (DC89), 1-30.06.2014, 2 exx., 1-31.07.2014, 1 ex., collected by window trap, habitat *Quercus robur-Pinetum*, 1-30.06.2014, 1 ex., 1-31.07.2014, 3 exx., collected by barrier trap hanging on a pine; oddz. 120 (DC89), 1-30.06.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOŚ Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*; oddz. 232 (DC89), 1-31.05.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*.

- OOS Kaliszki, oddz. 25 (DD80), 1-30.06.2014, 4 exx., collected by window trap, habitat *Quercus roboris-Pinetum*.

To date, in Poland, it was noted only in „Jegiel” Reserve in the Mazovian Lowland (Burakowski & al. 2000) and Wigry National Park (Sawoniewicz 2015).

### **3. 2. 10. *Pteryx suturalis* (Heer, 1841)**

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: ash (8 exx.), elm (2 exx.), 1-31.07.2015, 4 exx., collected by barrier trap hanging on an ash; oddz. 243 (DC79), 1-30.06.2016, 3 exx., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 100 (DC89), 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-31.07.2014, 1 ex., collected by barrier trap hanging on an pine; oddz. 121 (DC89), 1-30.06.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-31.07.2015, 2 exx., collected by barrier trap hanging on an oak.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 23 exx., 1-31.07.2015, 20 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (1 ex.), oak (2 exx.), 1-31.07.2015, 1 ex., collected by barrier trap hanging on an oak; oddz. 232 (DC89), 1-30.06.2016, 2 exx., collected by window trap, habitat *Ribes nigri-Alnetum*, 1-30.06.2016, 2 exx., collected by barrier trap hanging on an alder.
- OOS Kaliszki, oddz. 25 (DD80), 1-31.07.2014, 8 exx., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-31.07.2014, 1 ex., collected by barrier trap hanging on an pine.

A species rarely collected but most likely occurring in the whole country. To date noted from over a dozen regions (Burakowski & al. 1978).

### **3. 2. 11. *Ptiliola kunzei* (Heer, 1841)\***

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 4 exx., collected by barrier trap hanging on an ash.
- OOS Sieraków, oddz. 77 (DC89), 1-31.05.2014, 1 ex., 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*; oddz. 100 (DC89), 1-30.04.2014, 1 ex., 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-31.07.2014, 1 ex., collected by barrier trap hanging on an pine.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 1 ex., 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*.

A species rarely collected but most likely occurring in the whole country. To date noted from over a dozen regions (Burakowski & al. 1978).

New to the Mazovian Lowland.

### **3. 2. 12. *Ptiliolum (Ptiliolum) fuscum* (Erichson, 1845)\***

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 1 ex., 1-31.07.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.05.2015, 1 ex collected by barrier trap

hanging on an ash, 1-30.06.2015, 1 ex., collected by barrier trap hanging on an hornbeam; oddz. 243 (DC79), 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.

To date, in Poland, collected only in the Western Sudetes, Lower Silesia (Burakowski & al. 1978) and Masurian Lakeland (Jałoszyński & Wanat 2015).

New to the Mazovian Lowland.

### 3. 2. 13. *Ptinella aptera* (Guérin-Ménéville, 1839)

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (1 ex.), oak (1 ex.), 1-31.07.2015, 1 ex., collected by barrier trap hanging on an ash; oddz. 243 (DC79), 1-31.07.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 77 (DC89), 1-31.07.2014, 4 exx., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-30.06.2014, 2 exx., collected by barrier trap hanging on an pine; oddz. 100 (DC89), 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-30.06.2014, 1 ex., 1-31.07.2014, 2 exx., collected by barrier trap hanging on an pine; oddz. 121 (DC89), 1-30.06.2015, 1 ex., 1-31.07.2015, 2 exx., collected by window trap, habitat *Tilio-Carpinetum*; oddz. 120 (DC89), 1-30.06.2016, 1 ex., collected by barrier trap hanging on an alder.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 15 exx., 1-31.07.2015, 5 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (7 exx.), oak (1 ex.), 1-31.07.2015, 7 exx., collected by barrier trap hanging on an hornbeam.
- OOS Kaliszki, oddz. 25 (DD80), 1-30.06.2014, 1 ex., 1-31.07.2014, 2 exx., collected by window trap, habitat *Quercus roboris-Pinetum*.

A species rarely collected but most likely occurring in the whole country. To date noted from over a dozen regions (Burakowski & al. 1978).

### 3. 2. 14. *Ptinella limbata* (Heer, 1841)\*

- OOS Debły, oddz. 242 (DC79), 1-31.07.2015, 1 ex., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (2 exx.), ash (2 exx.), elm (2 exx.), 1-31.07.2015, collected by barrier traps hanging on an deciduous trees: oak (1 ex.), ash (19 exx.); oddz. 243 (DC79), 1-30.06.2016, 1 ex., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-30.06.2016, 3 exx., 1-31.07.2016, 3 exx., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 77 (DC89), 1-31.07.2014, 3 exx., collected by window trap, habitat *Quercus roboris-Pinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 10 exx., 1-31.07.2015, 19 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-31.07.2015, 3 ex., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-30.06.2016, 6 exx., 1-31.07.2016, 10 exx., collected by window trap, habitat *Ribeso nigri-Alnetum*, 1-30.06.2016, 7 exx., 1-31.07.2016, 2 exx., collected by barrier trap hanging on an alder.

A species considered rare in Poland, known from only 6 regions: Western Beskid, Lower and Upper Silesia, Wielkopolsko-Kujawska Lowland, Kraków-Wieluń Upland, Białowieża Forest (Burakowski & al. 1978) and Masurian Lakeland (Sawoniewicz 2015).

New to the Mazovian Lowland

**3. 2. 15. *Ptinella tenella* (Erichson, 1845)\***

- OOS Debły, oddz. 242 (DC79), 1-30.06.2015, 1 ex., 1-31.07.2015, 3 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, collected by barrier traps hanging on an deciduous trees: hornbeam (3 exx.), ash (5 exx.), elm (1 ex.), 1-31.07.2015, 4 exx., collected by barrier trap hanging on an ash; oddz. 243 (DC79), 1-30.06.2016, 3 exx., 1-31.07.2016, 3 exx., collected by barrier trap hanging on an alder.
- OOS Sieraków, oddz. 77 (DC89), 1-30.06.2014, 1 ex., 1-31.07.2014, 8 exx., collected by window trap, habitat *Quercus roboris-Pinetum*, 1-30.06.2014, 1 ex, 1-31.07.2014, 11 ex., collected by barrier trap hanging on an pine; oddz. 100 (DC89), 1-30.06.2014, 3 exx., collected by window trap, habitat *Quercus roboris-Pinetum*.
- OOS Zaborów Leśny, oddz. 269 (DC89), 1-30.06.2015, 64 exx., 1-31.07.2015, 14 exx., collected by window trap, habitat *Tilio-Carpinetum*, 1-30.06.2015, 8 exx., 1-31.05.2015, 2 exx., 1-31.07.2015, 3 exx., collected by barrier trap hanging on an hornbeam; oddz. 232 (DC89), 1-30.06.2016, 7 exx., 1-31.07.2016, 4 exx., collected by window trap, habitat *Ribes nigri-Alnetum*, 1-30.06.2016, 6 exx., 1-31.07.2016, 4 exx., collected by barrier trap hanging on an alder.
- OOS Kaliszki, oddz. 25 (DD80), 1-30.06.2014, 1 ex., collected by window trap, habitat *Quercus roboris-Pinetum*.

A species considered very rare in Poland, known only from Lower and Upper Silesia with all data on collected specimens dating back to the XIX th century (Burakowski & al. 1978). Currently its occurrence in the Masurian Lakeland has been proved (Sawoniewicz 2015).

New to the Mazovian Lowland.

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