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SHORT COMMUNICATION

Contribution to the knowledge of the fauna of Kampinos National Park: Tetratomidae (Coleoptera: Tenebrionoidea)

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ABSTRACT

The paper provides new data on 5 species of Tetratomidae (Coleoptera: Tenebrionoidea). Among them 3 species are new for the Kampinos National Park: *Tetratoma ancora*, *Eustrophus dermestoides* and *Hallomenus axillaris*. The occurrence of 2 species previously mentioned in literature was confirmed. One species: *T. ancora* have been recorded from the Mazovian Lowland for the first time.

Keywords: Tetratomidae, Kampinos National Park, faunistic data, new records, Masovian Lowland

1. INTRODUCTION

Tetratomidae is a small beetle family which representatives are colonizing bodies of hymenomycete fungi, especially from Polyporaceae and Tricholomataceae family. Adults usually are being found on the surface while larvae inside the fungi.

Hitherto 6 species of Tetratomidae representing 4 genera have been recorded from the territory of Poland and 4 of them have been noted from Mazovian Lowland area: *Tatratoma fungorum*, *Eustrophus demestoides*, *Hallomenus axillaris* and *H. binotatus* (Kubisz & al. 2010, 2014). As of yet only 2 species of Tetratomidae have been found in Kampinos National Park: *Tatratoma fungorum* and *Hallomenus binotatus* (Kubisz & al. 2000, Marczak 2010).

The aim of this study was to supplement the information's related with occurrence of representatives of the mentioned family in Kampinos National Park.

2. MATERIAL AND METHODS

The material was gathered by Dawid Marczak and Jakub Masiarz, the identification of species was performed by Dawid Marczak and Radosław Mroczyński. Proof specimens can be found in the authors' and Kampinos National Park's collections.

The following abbreviations were used in the text: FSU – forest spatial unit, 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 Nikitsky 2008.

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) and "The evaluation of the degree of naturalness of chosen tree stands in Kampinos National Park based on the fauna of saproxylic beetles – stage IV wet deciduous forest" (2017).

3. RESULTS – REVIEW OF THE SPECIES

3.1. Tetratominae BILLBERG, 1820

3.1.1. *Tatratoma ancora* Fabricius, 1790*

- Klaudyn, forestry Lipków, FSU 188 (DC89), 1-31.05.2017, 1 ex., collected by IBL-5 trap hanging on an aspen in *Fraxino-Alnetum* habitat.

A rare species most frequently found in the southern part of Poland (Kubisz & al. 2010, 2014). His development take place among others in *Phellinus punctatus* (Fr.) Pilát and *Polyporus squamosus* (Huds.: Fr.) Fr. (Nikitsky & Schigel 2004).

New to the Mazovian Lowland and KNP.

3.1.2. *Tetratoma fungorum* Fabricius, 1790

- SPA Zaborów Leśny, FSU 269 (DC89), 1-31.07.2015, 2 exx, collected by IBL-2 trap hanging in *Tilio-Carpinetum* habitat.

Literature data: SPA Sieraków (DC89) – Marczak 2010.

A frequently noted species found in several regions (Kubisz & al. 2010, 2014).

3.2. Eustrophinae GISTEL, 1856

3.2.1. *Eustrophus dermestoides* (Fabricius, 1792)

- SPA Debły (DC78), FSU 242, 1-30.06.2015, 1 ex., collected by IBL-2 trap hanging in *Tilio-Carpinetum* habitat.
- SPA Debły (DC78), FSU 243, 1-31.05.2016, 1 ex., collected by IBL-5 trap hanging on an alder in *Ribeso nigri-Alnetum* habitat.
- SPA Żurawiowe (DC79), FSU 72, 1-30.06.2017, 2 exx, collected by IBL-5 trap hanging an alder, 3 exx, collected by IBL-5 hanging on an birch, in *Fraxino-Alnetum* habitat.
- Klaudyn, forestry Lipków, FSU 188 (DC89), 1-30.06.2017, 1 ex., collected by IBL-5 trap hanging on an aspen in *Fraxino-Alnetum* habitat.
- SPA Sieraków (DC89), FSU 120, 1-31.05.2016, 1 ex., collected by IBL-5 trap hanging on an alder in *Ribeso nigri-Alnetum* habitat.
- SPA Sieraków (DC89), FSU 134, 1-30.06.2011, 1 ex., collected by IBL-5 trap hanging on an oak in *Quercu roboris-Pinetum* habitat.
- SPA Sieraków (DC89), FSU 135, 1-30.04.2015, 1 ex., collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat.
- SPA Zaborów Leśny (DC89), FSU 269, 1-31.07.2015, 1 ex., collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat.

This species is relatively common in Poland (Kubisz & al. 2010, 2014) but he is considered as a relic of primeval forests (Müller & al. 2005).

New to the KNP.

3.3. Hallomeninae MULSANT, 1856

3.3.1. *Hallomenus axillaris* (Illiger, 1807)

- SPA Debły (DC79), FSU 242, 1-31.07.2011, 2 exx, collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat.
- SPA Żurawiowe (DC79), FSU 72, 1-31.07.2017, 1 ex., collected by IBL-5 trap hanging an alder, 1 ex., collected by IBL-5 hanging on an aspen, in *Fraxino-Alnetum* habitat.

- SPA Sieraków (DC89), FSU 135, 1-30.06.2015, 1 ex., collected by IBL-2 trap hanging in *Tilio-Carpinetum* habitat, 1 ex., collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat.

Rare species known only from eleven regions in Poland (Kubisz & al. 2010, 2014).

His development take place among others in *Hapalopilus rutilans* (Pers.: Fr.) P. Karst., *Laetiporus sulphureus* (Bull.: Fr.) Murrill, *Polyporus squamosus* (Huds.: Fr.) Fr., *Postia fragilis* (Fr.) Jülich, *Pycnoporellus fulgens* (Fr.) Donk, *Tyromyces chioneus* (Fr.) P. Karst. (Nikitsky & Schigel 2004).

New to the KNP.

3.3.2. *Hallomenus binotatus* (Quensel, 1790)

- SPA Debły (DC79), FSU 242, 1-31.07.2011, 1 ex., 1-31.05.2015, 1 ex., collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat, 1-31.05.2015, 1 ex., 1-30.06.2015, 6 exx, collected by IBL-5 trap hanging on an ash in *Fraxino-Alnetum* habitat, 1-30.06.2015, 2 exx, collected by IBL-5 trap hanging on an elm in *Fraxino-Alnetum* habitat, 1-30.06.2015, 4 exx, 1-31.07.2015, 1 ex., collected by IBL-5 trap hanging on an hornbeam in *Tilio-Carpinetum* habitat, 1-31.07.2011, 1 ex., 1-31.08.2011, 1 ex., 1-30.06.2015, 3 exx, 1-31.07.2015, 1 ex., collected by IBL-2 trap hanging in *Tilio-Carpinetum* habitat.
- SPA Debły (DC79), FSU 243, 1-30.06.2016, 7 exx., collected by IBL-5 trap hanging on an alder in *Ribeso nigri-Alnetum* habitat.
- SPA Żurawiowe (DC79), FSU 72, 1-30.06.2017, 3 exx, collected by IBL-5 trap hanging an birch in *Fraxino-Alnetum* habitat.
- Klaudyn, forestry Lipków, FSU 188 (DC89), 1-30.06.2017, 3 exx., collected by IBL-5 trap hanging on an ash in *Fraxino-Alnetum* habitat.
- SPA Sieraków (DC89), FSU 135, 1-31.05.2015, 1 ex., 1-30.06.2015, 4 exx, collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat, 1-30.06.2015, 1 ex., collected by IBL-2 trap hanging in *Tilio-Carpinetum* habitat.
- SPA Zaborów Leśny (DC89), FSU 232, 1-30.06.2016, 1 ex., collected by IBL-5 trap hanging on an alder in *Ribeso nigri-Alnetum* habitat.
- SPA Zaborów Leśny (DC89), FSU 269, 1-31.05.2015, 2 exx, collected by IBL-5 trap hanging on an oak in *Tilio-Carpinetum* habitat.

Literature data: SPA Czerwińskie Góry (DC59) – Kubisz & al. 2000.

One of the most common representatives of Tetratomidae in Poland (Kubisz & al. 2010, 2014). His development take place among others in *Hapalopilus rutilans* (Pers.: Fr.) P. Karst., *Laetiporus sulphureus* (Bull.: Fr.) Murrill, *Postia fragilis* (Fr.) Jülich, *Pycnoporellus fulgens* (Fr.) Donk, *Pycnoporus cinnaberinus* (Jacq.: Fr.) P. Karst., *Tyromyces chioneus* (Fr.) P. Karst. (Nikitsky & Schigel 2004).

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