

NEW DATA ON MICROLEPIDOPTERA FROM THE ČEPKELIŲ RAISTAS BOG (SOUTHERN LITHUANIA)

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Introduction

The Čepkelių Raistas mire complex is located in southern Lithuania, on the border with Belarus. It is one of the largest wetland complexes in the region (its area is approximately 5858 ha). More than 40% of the wetland is covered by the raised bog with 21 small lakes, while the rest of it is covered by fens, transitional bogs and flooded forests (Švažas *et al.*, 2003).

The biggest part of the wetland was established as botanical – zoological preserve in 1960. The Čepkeliai Strict Nature Reserve was established in 1975 with the aim to protect the whole mire complex and its surroundings. It was designated as a Ramsar site since 1993 (Raudonikis, Kurlavičius, 2000).

The research of Lepidoptera in the Čepkelių Raistas bog was carried out episodically (Ivinskis *et al.*, 1984, 1997; Ivinskis, 2001; Dapkus, 2003; Anisimovas *et al.*, 2006). This report presents data on rare and very rare species of Microlepidoptera (according to Ivinskis, 2004) collected in the bog.

Material and Methods

The research of Lepidoptera in different habitats of the Čepkelių Raistas bog was carried out in 2005–2006. Three habitats were selected for studies using a BL-Pennsylvania light trap (8 W black light tube): open bog (*Sphagnetum magellanicum* (Malc. 29) Kästner et Flössner 33 em. Diers. 75 community) (54°01'14,2"N, 24°28'09,6"E) (“open bog” in the text) and two pine bog woodland communities (*Ledo-Pinetum* (*L.-P.*) *typicum* (54°02'04,4"N, 24°30'02,1"E) („pine bog“ in the text) and *L.-P.* f. *Calluna vulgaris* (54°01'27,7"N, 24°35'41,6"E) („*Calluna* bog“ in the text)). Some of the material was collected in pine bog woodland (*L.-P.* *typicum*) using Jalas model automatic light trap (160 W lamp bulb) established in Katra environs (53°59'31,7"N, 24°34'13,8"E). The geographical coordinates were measured using Garmin eTrex GPS receiver.

The material was collected by D. Dapkus and identified by J. Jaroš and K. Spitzer. The material is preserved in the collection of the Institute of Entomology, ASCR (Czech Republic). The nomenclature of Lepidoptera follows O. Karsholt and J. Razowski (1996).

List of species

TINEIDAE

***Montescardia tessulatellus* (Zeller, 1846)**

Katra, 05–11 06 2006, 1 spec.

GRACILLARIIDAE

***Parornix traugotti* Svensson, 1976**

Katra, 05–11 06 2006, 3 spec.

GELECHIIDAE

***Athrips pruinosa* (Lienig & Zeller, 1846)**

Pine bog, 29–31 07 2005, 6 spec.; open bog, 18–21 06 2001, 1 spec.; *Calluna* bog, 18–21 06 2001, 2 spec.; Katra, 06 26–07 02 2006, 8 spec.

***Chionodes lugubrella* (Fabricius, 1794)**

Katra, 06 26–07 02 2006, 1 spec.

***Gelechia (Gelechia) muscosella* Zeller, 1839**

Katra, 06 26–07 02 2006, 1 spec.

***Neofaculta infernella* (Herrich-Schäffer, 1854)**

Katra, 05–11 06 2006, 3 spec., 06 26–07 02 2006, 5 spec.

***Carpatolechia epomidella* (Tengström, 1869)**

Katra, 05 29–06 04 2006, 27 spec., 05–11 06 2006, 80 spec.

TORTRICIDAE

***Ancylis achatana* (Denis & Schiffermüller, 1775)**

Katra, 06 26–07 02 2006, 8 spec.

***Ancylis tineana* (Hübner, 1799)**

Katra, 05–11 06 2006, 1 spec.

***Bactra (Bactra) lacteana* Caradja, 1916**

Open bog, 07–10 07 2006, 1 spec.

***Bactra (Bactra) lancealana* (Hübner, 1799)**

Open bog, 07–10 07 2006, 2 spec.; Katra, 06 26–07 02 2006, 15 spec.

***Cnephasia (Cnephasia) asseclana* (Denis & Schiffermüller, 1775)**

Katra, 06 26–07 02 2006, 9 spec.

***Cnephasia (Cnephasiella) incertana* (Treitschke, 1835)**

Katra, 06 26–07 02 2006, 2 spec.

***Cochylis dubitana* (Hübner, 1799)**

Katra, 06 26–07 02 2006, 1 spec.

***Eucosma metzneriana* (Treitschke, 1830)**

Open bog, 18–21 06 2006, 2 spec.; Katra, 06 26–07 02 2006, 1 spec.

***Eupoecilia angustana* (Hübner, 1799)**

Calluna bog, 18–21 06 2006, 1 spec.

***Phiaris bipunctana* (Fabricius, 1794)**

Open bog, 18–21 06 2006, 1 spec.; Katra, 06 26–07 02 2006, 26 spec.

***Phiaris dissolutana* (Stange, 1886)**

Katra, 06 26–07 02 2006, 1 spec.

***Phiaris schulziana* (Fabricius, 1776)**

Pine bog, 29–31 07 2005, 12 spec.; *Calluna* bog, 10–13 08 2006, 6 spec.; pine bog, 10–13 08 2006, 2 spec.

***Phiaris turfosana* (Herrich-Schäffer, 1851)**

Katra, 06 26–07 02 2006, 5 spec.

CRAMBIDAE

***Crambus uliginosellus* Zeller, 1850**

Katra, 06 26–07 02 2006, 69 spec.; open bog, 07–10 07 2006, 1 spec.

PYRALIDAE

***Endotricha flammealis* (Denis & Schiffermüller, 1775)**

Pine bog, 29–31 07 2005, 5 spec.

***Udea inquinatalis* (Lienig & Zeller, 1846)**

Katra, 05 29– 06 04 2006, 15 spec., 05–11 06 2006, 37 spec.

Discussion

One new species for Lithuania (*Carpatolechia epomidella*) and 22 rare and local species of Microlepidoptera were recorded in the bog during 2005–2006. The boreal species *C. epomidella* is found in peat bogs in Latvia, Finland, and Russia, but is not known from Estonia (Jürivete *et al.*, 2000). *C. epomidella*, *Athrips pruinosa*, and *Phiaris turfosana* should be considered as tyrphobiontic species (strictly associated with bogs) in Lithuania.

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Nauji duomenys apie mikrodrugių (Microlepidoptera) rūšis Čepkelių raisto (Pietų Lietuva) pelkėje

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Santrauka

Straipsnyje pateikiami duomenys apie retas ir labai retas (iš jų *Teleiodes epomidella* – nauja Lietuvos faunos rūšis) mikrodrugių rūšis, užregistruotas tyrimų įvairiose Čepkelių raisto buveinėse 2005–2006 metais metu. Kiekvienai rūšiai pateikiama radavietė, data, užregistruotų individų skaičius.

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