

DATA ON NEW AND RARE LEPIDOPTERA SPECIES FOR LITHUANIAN FAUNA

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Introduction

After examination of newly collected material and of preserved material in collection of Laboratory of entomology (Nature Research Centre) some new and rare Lepidoptera species were determined. Data on 7 new and 37 rare Lepidoptera species are presented in this paper.

Material and Methods

The majority of the data were collected by the authors P. Ivinskis (P.I.) and J. Rimšaitė (J.R.) during field investigations in 2009–2013. Breeding from larvae, netting, light and wine trapping were used. In light trapping battery trap (8 W blended lamp), screen (160 W mixed light lamp), automatic traps with 300 W solar type lamps were used. The material was identified using B. Bengtsson *et al.* (2008), B. Bengtsson & R. Johansson (2011) identification guides. Catalogues by P. Ivinskis (2004), U. Jurivete & E. Ounap (2008), N. Savenkov & I. Šulcs (2010) were used for distribution and faunistic data. Taxonomical treatment follows that of the Fauna Europaea database (Karsholt *et al.*, 2013). The specimens are deposited in collection of Nature Research Centre, Vilnius. Species new for the Lithuanian fauna are marked with an asterisk (*).

List of localities

Anykščiai district	Šimonių Miškas f.	55°38'11.7"N, 25°16'28.0"E;
	Nevėžininkai	55°33'44.6"N, 24°49'09.1"E;
Ignalina district	Adutiškio Miškas f.	55°14'05.1"N, 26°40'14.1"E;
	Curonian Spit	Nagliai nature reserve
Juodkrantė		55°31'20.8"N, 21°06'57.9"E;
Kaišiadorys district	Alksnynė	55°38'34.7"N, 21°07'23.7"E;
	Šešuva preserve	54°56'14.0"N, 24°14'56.0"E;
Kėdainiai district	Saviečiai, Labūnavos Miškas f.	55°09'09.0"N, 23°58'53.6"E;
	Labūnava	55°09'29.1"N, 23°54'49.9"E;
Klaipėda district	Tyrų Pelkė bog	55°34'18.7"N, 21°13'06.3"E;
	Vilkyčiai	55°31'26.3"N, 21°23'13.8"E;
Lazdijai district	Padumbliai	54°01'24.6"N, 23°40'21.8"E;
	Gerdašiai	53°56'44.8"N, 23°52'49.4"E;
Marijampolė district	Amalvo Pelkė bog	54°30'56.9"N, 23°35'38.6"E;
Pagėgiai municipality	Bitėnai	55°03'41.9"N, 22°02'40.8"E;
Plungė district	Visvainiai gravel pit	56°05'16.6"N, 21°50'47.7"E;

	Žvelgsa river bank	55°45'14.4"N, 21°42'14.3"E;
Švenčionys district	Obelų Ragas	55°17'16.0"N, 26°02'47.8"E;
	Pabradė	54°59'01.8"N, 25°45'04.7"E;
Ukmergė district	Dukstyna entomological preserve	55°16'46.1"N, 24°51'00.9"E;
Varėna district	Perlojos Miškas f.	54°12'24.2"N, 24°22'24.6"E;
Vilnius district	Kalniškės	54°50'49.6"N, 25°10'38.3"E;
	Paneriai	54°47'09.9"N, 24°53'54.7"E;
	Pikeliškių Miškas f.	54°51'37.0"N, 25°13'44.5"E;
Vilnius city	Šeškinė	54°43'17.8"N, 25°15'37.5"E.

Results

NEPTICULIDAE

* *Stigmella centifoliella* (Zeller, 1848)

Juodkrantė, 09 2009, mines on *Rosa rugosa*, 09 03 2010, imago 2 spec.

Stigmella prunetorum (Stainton, 1855)

Bitėnai, 25 07 2013, numerous mines on *Prunus spinosa*, 08 08 2013, imago 1 spec.; Šeškinė, 08 09 2013, 5 mines on *Prunus* sp.

GRACILLARIIDAE

Povolnya leucapennella (Stephens, 1835)

Pikeliškių Miškas f., 09 05 2013, 1 spec.

* *Phyllonorycter medicaginella* (Gerasimov, 1930)

Alksnynė, 13 08 2013, numerous mines on *Melilotus alba*, 15 08 2013, 10 spec. New species for the fauna of Baltic countries.

* *Parornix finitimella* (Zeller, 1850)

Bitėnai, 25 07 2013, few larvae on *Prunus spinosa*, 08 08 2013, imago 3 spec. New species for the fauna of Baltic countries.

Dialectica imperialella (Zeller, 1847)

Tyrų Pelkė bog, 03 07 2013, 3 mines on *Symphytum officinale*, 01 08 2013, 1 imago.

ACROLEPIIDAE

Digitivalva reticulella (Hubner, 1796)

Padumbliai, 19 06 2013, 1 spec.

LYONETIIDAE

* *Lyonetia pulverulentella* Zeller, 1839

Šimonių Miškas f., 19 07 2013, on *Salix* sp., in blotch mines, 03 08 2013, 3 spec.

DEUTEROGONIIDAE

Deuterogonia pudorina Rebel, 1901

Perlojos Miškas f., 25 06 2013, 8 spec.

COLEOPHORIIDAE

Coleophora sapponariella Heeger, 1848

Paneriai, Pabradė, Bitėnai; Vilkyčiai, July–August 2013, abundant mines and sacks on food plant *Sapponaria officinalis*.

GELECHIIDAE

* *Caryocolum alsinella* (Zeller, 1868)

Gerdašiai, 11 08 1996, 2 spec.

****Synopacma sangiella* (Stainton, 1863)**

Kalniškės, 09 06 2012, 1 spec.

***Dichomeris ustalella* (Fabricius, 1794)**

Perlojos Miškas f., 22 05 2012, 1 spec.

***Gelechia hippophaella* (Schrank, 1802)**

Juodkrantė, 12 05 2005, 1 spec.; Visvainiai gravel pit, 10 06 2013, larvae in spoon shoots of *Hippophae rhamnoides*, 13 07 2013, imago 5 spec..

***Anarsia spartiella* (Schrank, 1802)**

Perlojos Miškas f., 25 06 2013, 2 spec.

TORTRICIDAE

***Sparganothis pilleriana* (Denis & Schiffermüller, 1775)**

Nagliai nature reserve, 12 06 2012, larvae on *Helichrysum arenarium*, 01 07 2012, imago 1 spec., 16 07 2013, imago 4 spec.

***Choristoneura murinana* (Hübner, 1799)**

Juodkrantė, 15 07 2013, 1 spec.

***Eucosma messingiana* (Fischer v. Roslerstamm, 1837)**

Nagliai nature reserve, 03 09 2012, 1 spec.

PTEROPHORIDAE

***Cnaemidophorus rhododactyla* (Denis & Schiffermüller, 1775)**

Saviečiai, 03 07 2013, 1 spec.

PYRALIDAE

***Ecpyrrhorrhoe rubiginalis* (Hübner, 1796)**

Kalniškės, 05–09 2012, about 100 spec.

***Phycita roborella* (Denis & Schiffermüller, 1775)**

Juodkrantė, 15 07 2013, 2 spec.

***Ebulea crocealis* (Hübner, 1796)**

Amalvo Pelkė bog, 20 06 2013, 1 spec. on *Inula britannica*.

LYCAENIDAE

***Lycaena dispar* (Haworth, 1802)**

Adutiškio Miškas f., 23 06 2013, 8 spec., Amalvo Pelkė bog, 20 06 2013, 2 spec.; Kalniškės, 04–05 08 2013, 7 spec.; Rodai, 07 08 2013, 1 spec.; Šešuva preserve, 21 06 2013, 1 spec.

***Maculinea teleius* (Bergsträsser, 1779)**

Žvelgsa river bank, 03 07 2013, about 30 spec.

NYMPHALIDAE

***Nymphalis xanthomelas* (Esper, 1781)**

Amalvo Pelkė bog, 20 06 2013, about 30 fresh spec.; Kalniškės, 05–07 09 2013, 10 spec.

***Euphydryas aurinia* (Rottemburg, 1775)**

Nevėžininkai, 23 05 2013, 1 spec.

GEOMETRIDAE

***Stegania cararia* (Hübner, 1790)**

Juodkrantė, 03 06 2013, 1 spec., Perlojos Miškas f., 01 07 2012, 3 spec., 25 06 2013, 1 spec.

***Cyclophora linearia* (Hübner, 1799)**

Juodkrantė, 17 06 2013, 1 spec.

***Pseudoterpna pruinata* (Hufnagel, 1767)**

Perlojos Miškas f., 25 06 2013, 5 spec.

NOTODONTIDAE

***Pygaera timon* (Hübner, 1803)**

Kalniškės, 29 05 2013, 1 spec.

***Ptilodon cucullina* (Denis & Schiffermüller, 1775)**

Dukstyna ent. pr., 06 07 2013, 1 spec., Perlojos Miškas f., 01 07 2012, 1 spec.

NOCTUIDAE

****Minucia lunaris* (Denis & Schiffermüller, 1775)**

Juodkrantė, 20 05–03 06 2013, 15 spec. in wine trap. New species for the fauna of Baltic countries.

***Callopietria juvenina* (Stoll, 1782)**

Obelų Ragas, 03 07 2012, 3 spec.

***Hyssia cavernosa* (Eversmann, 1842)**

Perlojos Miškas f., 22 05 2012, 1 spec.

***Xymoloia graminea* (Graeser, 1889)**

Kalniškės, 19 06 2012, 1 spec.; 24 06 2012, 2 spec.; 21 06 2013, 2 spec.

***Dryobotodes eremita* (Fabricius, 1775)**

Kalniškės, 05 09 2013, 1 spec; Juodkrantė, 23 09 2013, 3 spec. in wine trap.

***Mesoligia literosa* (Haworth, 1809)**

Nagliai nature reserve, 16 07 2013, 3 spec.

***Ipimorpha contusa* (Freyer, 1849)**

Adutiškio Miškas f., 23 06 2013, 2 spec.

***Mythimna l-album* (Linnaeus, 1767)**

Juodkrantė, 23 09 2013, 1 spec. in wine trap., 12–29 08 2013, 1 spec. in wine trap.

***Sideridis (Heliophobus) kitti* (Schaverda, 1914)**

Perlojos Miškas f., 01 07 2012, 1 spec.

***Tiliacea citrigo* (Linnaeus, 1758)**

Kalniškės, 05 09 2013, 1 spec.

***Phragmatiphila nexa* (Hübner, 1808)**

Juodkrantė, 27 08 2013, 1 spec., 09 09 2013, 1 spec.

ARCTIIDAE

***Tyria jacobaeae* (Linnaeus, 1758)**

Padumbliai, 19 06 2013, 1 larvae on *Senecio jacobea*.

***Pericallia matronula* (Linnaeus, 1758)**

Adutiškio Miškas f., 23 06 2013, 4 spec; Perlojos Miškas f., 25 06 2013, 4 spec.

Discussion

Data about 7 new and 37 rare for the Lithuanian fauna species are presented. *Stigmella centifoliella* is distributed in many European countries, found in the neighbouring country – Poland. In Curonian spit the species uses the same biotopes and the same host plant as *S. anomalella* Goeze – *Rosa rugosa*. *Phyllonorycter medicaginella* and *Parornix finitimella* are reported as new for the Baltic countries. The nearest localities for *Ph. medicaginella* and for *P. finitimella* are in Poland. *Lyonetia pulverulentella* is widely distributed in Baltic countries and Poland. *Caryocolum*

alsinella and *Syncopacma sangiella* are distributed in Estonia and Latvia. According to N. Savenkov's personal comments *C. alsinella* is widely distributed in Latvia. *Minucia lunaris* is reported as new for the Baltic countries. As migrant species it is registered in many European countries, the nearest are Denmark and Poland. New data on distribution of protected species included into Lithuanian Red data book – *Lycaena dispar*, *Euphydryas aurinia*, *Ipimorpha contusa*, *Mesoligia literosa* and *Tyria jacobaeae* – are presented. *Dialectica imperialella* was known in Lithuania as larvae, imago of this species was reared for the first time. For *Digitivalva reticulella* second locality in Lithuania is reported. Seems that *Coleophora sapponariella* is quickly spreading in Lithuania. Some years ago it was known only from two localities in southern part of Lithuania. In 2013 we found four new localities in eastern and western parts of Lithuania. New finding localities are reported for *Sparganothis pilleriana*, *Choristoneura murinana*, *Gelechia hippophaella*, *Dichomeris ustalella*, *Anarsia spartiella*, *Cnaemidophorus rhododactyla*, *Ecpyrrhorhoe rubiginalis*, *Phycita roborella*, *Ebulea crocealis*, *Cyclophora linearia*, *Pseudoterpna pruinata*, *Pygaera timon*, *Calloplistria juvenina*, *Hyssia cavernosa*, *Dryobotodes eremita*, *Ipimorpha contusa*, *Sideridis (Heliophobus) kitti*, *Tiliacea citrigo*, *Phragmatiphila nexa*, *Tyria jacobaeae* and *Pericallia matronula*.

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Duomenys apie naujas ir retas Lietuvos faunos drugių (Lepidoptera) rūšis*P. IVINSKIS, J. RIMŠAITĖ***Santrauka**

Pateikiami duomenys apie 7 naujas ir 37 retas Lietuvos faunai drugių rūšis. Penkios rūšys - *Stigmella centifoliella*, *Phyllonorycter medicaginella*, *Parornix finitimella* ir *Minucia lunaris* Pabaltijo šalių faunai nurodomos pirmą kartą. *Minucia lunaris* registruota daugelyje Europos šalių, artimiausios šalys, kur rūšis konstatuota kaip migrantas, yra Danija ir Lenkija. Kitos naujos rūšys - *Lyonetia pulverulentella*, *Caryocolum alsinella* ir *Syncopacma sangiella* - plačiai paplitusios tiek Europoje, tiek ir gretimose Pabaltijo šalyse. Pateikiami nauji duomenys apie *Lycaena dispar*, *Euphydryas aurinia*, *Ipimorpha contusa*, *Mesoligia literosa* ir *Tyria jacobaeae* – rūšis, įrašytas į Lietuvos Raudonąją knygą. Rūšims *Sparganothis pilleriana*, *Choristoneura murinana*, *Gelechia hippophaella*, *Dichomeris ustalella*, *Anarsia spartiella*, *Cnaemidophorus rhododactyla*, *Ecpyrrhorrhoe rubiginalis*, *Phycita roborella*, *Ebulea crocealis*, *Cyclophora linearia*, *Pseudoterpna pruinata*, *Pygaera timon*, *Callopietria juvenina*, *Hyssia cavernosa*, *Dryobotodes eremita*, *Ipimorpha contusa*, *Sideridis (Heliophobus) kitti*, *Tiliacea citrago*, *Phragmatiphila nexa*, *Tyria jacobaeae*, *Pericallia matronula* pateikiamos naujos radvietės.

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