

TWO NEW AND 40 RARE FOR LITHUANIA LEPIDOPTERA SPECIES COLLECTED IN 2003–2009

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Introduction

This article presents data on new and rare for the Lithuanian fauna butterfly and moth species collected in southern Lithuania. The research site was chosen because of suitable conditions to perform long-term studies of Lepidoptera group. There was no similar research carried out by other authors in the described area, so this article should expand the knowledge about the distribution of rare Lepidoptera species in Lithuania.

Material and Methods

The material was collected by the author of this report in Varėna administrative district, Daržininkai environs (Southern Lithuania) in 2003–2009. Moths were attracted to light using UV lamp bulb and sampled. Butterflies and some day-active moths were collected using a standard entomological net in a specified transects. Identification of the material was carried out using different sources (Kazlauskas, 1984; Koch, 1991; Fibiger, 1993; Nowacki, 1998; Ronkay *et al.*, 2001; Mironov, 2003). The nomenclature follows the Fauna Europaea database (Karsholt & Nieukerken, 2007).

The majority of material is preserved in the author's personal collection; some specimens are kept in the collection of the Museum of Zoology of Vilnius University, Lithuania.

Species new for the Lithuanian fauna are marked with an asterisk (*).

List of localities

Varėna district	Daržininkai (1)	54°19'30,2"N, 24°52'42,4"E
	Daržininkai (2)	54°19'39,8"N, 24°53'30,1"E
	Valkininkų Miškas f.	54°19'41,9"N, 24°54'09,1"E

List of species

LASIOCAMPIDAE

Odonestis pruni (Linnaeus, 1758)

Daržininkai (2), 28 06 2006, 1 spec., 13 07 2006, 1 spec.

HESPERIIDAE

**Carcharodus alceae* (Esper, 1780)

Daržininkai (2), 20 05 2006, 1 spec.; Daržininkai (1), 01 05 2009, 1 spec., 06 08 2009, 1 spec.; Valkininkų Miškas f., 23 07 2008, 1 spec., 06 08 2009, 1 spec.

GEOMETRIDAE

***Charissa ambiguata* (Duponchel, 1830)**

Daržininkai (2), 28 06 2006, 1 spec., 28 06 2008, 1 spec., 02 07 2008, 1 spec., 07 07 2008, 3 spec.

***Catarhoe rubidata* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 01 07 2006, 2 spec., 16 07 2007, 1 spec., 28 06 2008, 1 spec., 07 07 2008, 1 spec.

***Cyclophora annularia* (Fabricius, 1775)**

Daržininkai (2), 01 08 2006, 1 spec., 04 08 2006, 1 spec., 19 07 2007, 2 spec., 07 06 2008, 1 spec., 08 06 2008, 1 spec., 28 06 2008, 2 spec., 07 07 2008, 1 spec.

***Ecliptopera capitata* (Herrich-Schäffer, 1839)**

Daržininkai (2), 13 07 2006, 1 spec., 04 08 2006, 1 spec., 23 07 2007, 1 spec.

***Eupithecia extraversaria* (Herrich-Schäffer, 1852)**

Daržininkai (2), 11 07 2006, 1 spec., 17 07 2006, 1 spec., 10 07 2007, 4 spec., 27 06 2008, 1 spec.

***Eupithecia inturbata* (Hübner, 1817)**

Daržininkai (2), 04 08 2006, 19 08 2006, 1 spec., 02 09 2006, 1 spec., 1 spec., 09 08 2007, 1 spec., 24 08 2007, 2 spec., 06 09 2008, 1 spec.

***Eupithecia millefoliata* (Rössler, 1866)**

Daržininkai (2), 13 07 2006, 2 spec., 16 07 2006, 1 spec., 30 07 2006, 2 spec., 01 08 2006, 1 spec., 26 06 2007, 1 spec., 09 07 2007, 1 spec.

***Eupithecia venosata* (Fabricius, 1787)**

Daržininkai (2), 04 07 2006, 1 spec., 12 07 2006, 1 spec., 21 07 2006, 2 spec., 16 07 2007, 1 spec., 27 06 2008, 1 spec., 01 07 2008, 1 spec., 07 07 2008, 1 spec.

***Idaea humiliata* (Hufnagel, 1767)**

Daržininkai (2), 30 06 2006, 1 spec., 04 07 2006, 13 spec., 11 07 2006, 11 spec., 12 07 2006, 26 spec., 13 07 2006, 7 spec., 30 07 2006, 1 spec., 01 08 2006, 1 spec., 23 06 2007, 1 spec., 24 06 2007, 1 spec., 25 06 2007, 6 spec., 26 06 2007, 9 spec., 27 06 2007, 1 spec., 28 06 2008, 2 spec., 02 07 2008, 1 spec., 06 07 2008, 4 spec., 18 07 2008, 1 spec., 19 07 2008, 2 spec., 25 07 2008, 1 spec.

***Idaea seriata* (Schrank, 1802)**

Daržininkai (2), 21 07 2006, 1 spec., 19 07 2007, 1 spec., 08 07 2008, 1 spec.

***Lythria purpuraria* (Linnaeus, 1758)**

Daržininkai (2), 31 07 2006, 1 spec.

***Selidosema brunnearia* (Villers, 1789)**

Daržininkai (2), 08 08 2007, 1 spec.

***Spargania luctuata* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 27 05 2005, 1 spec., 25 06 2005, 2 spec., 14 06 2006, 2 spec., 15 06 2006, 2 spec., 23 06 2006, 1 spec., 24 06 2006, 1 spec., 04 07 2006, 2 spec., 30 07 2006, 2 spec., 23 07 2007, 1 spec., 07 06 2008, 3 spec., 08 06 2008, 1 spec., 27 07 2008, 1 spec., 30 07 2008, 1 spec.

***Stegania cararia* (Hübner, 1790)**

Daržininkai (2), 04 07 2006, 2 spec., 24 06 2007, 1 spec., 07 06 2008, 1 spec., 28 06 2008, 1 spec., 02 07 2008, 1 spec., 07 07 2008, 14 07 2008, 1 spec.

***Triphosa dubitata* (Linnaeus, 1758)**

Daržininkai (2), 13 08 2004, 1 spec., 16 08 2004, 1 spec., 25 07 2005, 1 spec., 01 08 2005, 1 spec., 25 08 2006, 1 spec.

NOCTUIDAE

***Aetheria bicolorata* (Hufnagel, 1766)**

Daržininkai (2), 21 05 2007, 1 spec., 07 06 2008, 2 spec., 28 06 2008, 1 spec.

***Apamea unanimitis* (Hübner, 1813),**

Daržininkai (2), 24 06 2006, 1 spec., 30 06 2006, 1 spec.

***Archanara dissoluta* (Treitschke, 1825)**

Daržininkai (2), 30 07 2006, 1 spec.

***Autographa buraetica* (Staudinger, 1892)**

Daržininkai (2), 28 06 2006, 2 spec., 28 06 2008, 1 spec.

***Cucullia argentea* (Hufnagel, 1766)**

Daržininkai (2), 15 07 2006, 1 spec., 30 07 2006, 1 spec.

***Cucullia absinthii* (Linnaeus, 1761)**

Daržininkai (2), 03 08 2003, 1 spec., 26 07 2005, 1 spec., 14 08 2007, 2 spec., 14 08 2007, 2 spec.

***Eucarta virgo* (Treitschke, 1835)**

Daržininkai (2), 25 07 2005, 1 spec., 01 07 2006, 1 spec., 13 07 2006, 1 spec., 30 07 2006, 2 spec., 01 08 2006, 1 spec., 19 07 2007, 1 spec., 28 06 2008, 1 spec., 07 07 2008, 1 spec., 08 08 2008, 1 spec., 06 09 2008, 3 spec.

***Eugraphe sigma* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 28 06 2006, 1 spec., 01 07 2006, 1 spec., 04 07 2006, 1 spec., 11 07 2006, 1 spec., 13 07 2006, 1 spec., 16 07 2006, 1 spec., 17 07 2006, 2 spec., 24 06 2007, 5 spec., 26 06 2007, 5 spec., 27 06 2007, 5 spec., 10 07 2007, 2 spec., 28 06 2008, 4 spec., 02 07 2008, 2 spec., 07 07 2008, 4 spec., 14 07 2008, 3 spec., 18 07 2008, 1 spec., 19 07 2008, 1 spec.

***Hadena compta* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 27 06 2003, 1 spec., 23 07 2005, 1 spec., 03 07 2006, 1 spec., 04 07 2006, 4 spec., 11 07 2006, 2 spec., 21 07 2006, 1 spec., 27 06 2007, 1 spec., 15 07 2007, 1 spec., 16 07 2007, 1 spec., 29 07 2007, 1 spec., 07 07 2008, 1 spec., 25 07 2008, 1 spec.

***Hadena luteago* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 05 08 2003, 2 spec., 01 07 2006, 1 spec., 03 07 2006, 1 spec., 28 06 2008, 3 spec.

***Hoplodrina ambigua* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 12 08 2008, 1 spec.

***Noctua interposita* (Hübner, 1790)**

Daržininkai (2), 19 08 2006, 1 spec., 20 08 2006, 1 spec., 19 07 2007, 1 spec.

***Protolampra sobrina* (Duponchel, 1843)**

Daržininkai (2), 30 07 2006, 1 spec., 01 08 2006, 1 spec.

****Proxenus lepigone* (Möschler, 1860)**

Daržininkai (2), 01 08 2006, 1 spec., 12 08 2008, 2 spec., 06 09 2008, 1 spec.

***Sedina buettneri* (E. Hering, 1858)**

Daržininkai (2), 06 09 2008, 1 spec., 07 09 2008, 1 spec.

***Simyra nervosa* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 24 07 2007, 1 spec.

***Spaelotis ravidata* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 12 07 2006, 1 spec., 26 06 2007, 1 spec., 12 08 2008, 1 spec.

***Staurophora celsia* (Linnaeus, 1758)**

Daržininkai (2), 16 09 2006, 3 spec., 22 09 2006, 2 spec., 26 08 2007, 2 spec., 05 09 2008, 5 spec., 06 09 2008, 2 spec.

***Syngrapha interrogationis* (Linnaeus, 1758)**

Daržininkai (2), 04 07 2006, 1 spec., 13 07 2006, 1 spec., 30 07 2006, 2 spec., 01 08 2006, 1 spec.

***Yigoga signifera* (Denis & Schiffermüller, 1775)**

Daržininkai (2), 26 07 2005, 1 spec., 28 06 2006, 2 spec., 30 06 2006, 4 spec., 04 07 2006, 10 spec., 10 07 2006, 1 spec., 11 07 2006, 13 spec., 13 07 2006, 18 spec., 16 07 2006, 1 spec., 17 07 2006, 8 spec., 20 07 2006, 1 spec., 21 07 2006, 7 spec., 30 07 2006, 1 spec., 01 08 2006, 1 spec., 04 08 2006, 1 spec., 24 06 2007, 1 spec., 26 06 2007, 9 spec., 27 06 2007, 5 spec., 09 07 2007, 2 spec., 10 07 2007, 1 spec., 16 07 2007, 5 spec., 19 07 2007, 2 spec., 24 07 2007, 1 spec., 09 08 2007, 1 spec., 28 06 2008, 1 spec., 07 07 2008, 2 spec., 14 07 2008, 1 spec., 19 07 2008, 1 spec.

LYMANTRIIDAE

***Euproctis chrysorrhoea* (Linnaeus, 1758)**

Daržininkai (2), 11 07 2006, 1 spec., 14 07 2008, 1 spec.

NOLIDAE

***Nycteola degenerana* (Hübner, 1799)**

Daržininkai (2), 30 07 2008, 1 spec., 12 08 2008, 1 spec.

***Nycteola revayana* (Scopoli, 1772)**

Daržininkai (2), 02 09 2006, 1 spec., 06 09 2008, 3 spec.

ARCTIIDAE

***Spiris striata* (Linnaeus, 1758)**

Daržininkai (2), 16 08 2004, 2 spec., 23 07 2005, 1 spec., 20 07 2006, 1 spec., 30 07 2008, 1 spec.

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

Daržininkai (2), 13 07 2006, 1 spec.; Valkininkų Miškas f., 12 06 2006, 2 spec.

Discussion

Forty rare and two new (*Carcharodus alceae* (Esper, 1780) and *Proxenus lepigone* (Moschler, 1860)) for the Lithuanian fauna Lepidoptera species were registered in the studied sites in 2003–2009. One species (*Tyria jacobaeae* (Linnaeus, 1758)) is included into the Lithuanian Red Data book (Rašomavičius, 2007). One specimen of *Selidosema brunnearia* (Villers, 1789) was caught, and it is only the second known locality of this species in Lithuania.

Two specimens of *Carcharodus alceae* (Esper, 1780) were caught in 2006 and 2008. Formerly they were mistakenly identified as *Carcharodus floccifera* (Zeller, 1847) and published as such (Paukštė, 2008).

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Dvi naujos ir 40 retų Lietuvos faunos drugių (Lepidoptera) rūšių, užregistruotų 2003–2009 metais

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Santrauka

Straipsnyje pateikiami duomenys apie dvi naujas Lietuvos faunos (*Carcharodus alceae* (Esper, 1780) ir *Proxenus lepigone* (Moschler, 1860)) ir 40 retų drugių rūšių. Nurodoma tiksli sugavimo vieta, data, sugautų individų skaičius ir rinkėjas.

Iš 42 straipsnyje paminėtų rūšių viena – *Tyria jacobaeae* (Linnaeus, 1758) – įtraukta į Lietuvos raudonąją knygą. Tyrimų metu užregistruota *Selidosema brunnearia* (Villers, 1789) - iki šiol Lietuvoje buvo sugautas tik vienas šios rūšies individas (Kazlauskas, 2004).

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