

RARE SPECIES OF LEPIDOPTERA COLLECTED IN KAUNAS, ŠVENČIONYS, VARĖNA AND VILNIUS ADMINISTRATIVE DISTRICTS (LITHUANIA) IN 2009

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Introduction

The article presents new data on rare species of moths and butterflies registered in four administrative districts in central and south-eastern Lithuania in 2009. These districts are different with their habitats and specific species of insects.

Material and Methods

The material was collected in Kaunas, Švenčionys, Varėna and Vilnius administrative districts during April-September, 2009, using standard entomological techniques (transect counts, netting and light trapping).

The material was identified using different identification keys (Bleszynski, 1965; Ivinskis & Augustauskas, 2004; Kazlauskas, 1984; Mironov, 2003; Nowacki, 1998, Skou, 1986).

Information on the locality, finding date and the number of the recorded specimens is provided for every species.

The collected material is preserved in the personal collection of the author.

List of localities

Kaunas district	Lapės	54°59'03,4"N, 24°00'07,2"E
	Lapės geomorphological pr.	54°59'41,8"N, 24°01'03,5"E
	Staviščių Miškas f.	54°58'47,6"N, 23°59'13,0"E
	Šančių Miškas f.	54°59'12,2"N, 24°03'42,4"E
	Varlivos Miškas f.	55°01'00,7"N, 23°53'57,7"E
Švenčionys district	Kanio Raistas bog	55°13'28,4"N, 25°43'20,3"E
	Meškerinė env.	55°03'32,1"N, 25°51'45,2"E
	Pabradė military training area	55°04'49,9"N, 25°52'39,3"E
	Padumblė env.	55°14'48,0"N, 25°46'18,9"E
Varėna district	Vidugiris env.	55°14'21,3"N, 25°42'23,8"E
	Kašėtos env.	54°05'34,9"N, 24°22'30,1"E
	Mielupiai env.	54°18'31,1"N, 24°46'12,7"E
Vilnius district	Valkininkai env.	54°20'34,6"N, 24°49'57,5"E
	Daubėnai env. (1)	54°34'38,6"N, 25°26'20,7"E
	Daubėnai env. (2)	54°34'N, 25°26'E

List of species

LASIOCAMPIDAE

***Odonestis pruni* (Linnaeus, 1758)**

Meškerinė, 15 07 2009, 1 spec.

HESPERIIDAE

***Carcharodus floccifera* (Zeller, 1847)**

Varlivos Miškas f., 28 06 2009, 1 spec.

***Carterocephalus palaemon* (Pallas, 1771)**

Varlivos Miškas f., 26 05 2009, ~ 10 spec., 11 06 2009, 3 spec.

PAPILIONIDAE

***Papilio machaon* Linnaeus, 1758**

Pabradė military ground, 06 08 2009, 2 spec.

***Parnassius mnemosyne* (Linnaeus, 1758)**

Lapės geomorphological preserve, 26 05 2009, ~ 40 spec., 11 06 2009, 6 spec.

LYCAENIDAE

***Glaucopsyche (Maculinea) arion* (Linnaeus, 1758)**

Kašėtos, 03 07 2009, ~ 30 spec.; Mielupiai, 18 06 2009, 1spec., 03 07 2009, 7 spec.

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

Lapės geomorphological preserve, 28 06 2009, 1 spec.; Varlivos Miškas f., 28 06 2009, 1 spec., 10 07 2009, 1 spec., 22 07 2009, 1 spec.; Valkinininkai, 18 06 2009, 2 spec., 03 07 2009, ~ 10 spec.; Daubėnai (1), 30 06 2009, 1 spec.

***Lycaena helle* (Denis & Schiffermüller, 1775)**

Daubėnai (2), 25 05 2009, ~ 10 spec., 15 06 2009, 3 spec.

***Plebeius (Aricia) agestis* (Denis & Schiffermüller, 1775)**

Lapės geomorphological preserve, 26 05 2009, 1 spec., 11 06 2009, 1 spec., 03 08 2009, 1 spec., 17 08 2009, 1 spec.; Mielupiai, 18 06 2009, 1spec.

***Plebeius (Aricia) eumedon* (Esper, 1780)**

Varlivos Miškas f., 10 07 2009, 4 spec., 22 07 2009, 7 spec.; Mielupiai, 18 06 2009, 1spec.; Daubėnai (1), 30 06 2009, 3 spec., 14 07 2009, 1 spec.

***Satyrium pruni* (Linnaeus, 1758)**

Mielupiai, 18 06 2009, 2 spec.

***Satyrium w-album* (Knoch, 1782)**

Mielupiai, 03 07 2009, 1spec.

NYMPHALIDAE

***Boloria (Proclissiana) eunomia* (Esper, 1799)**

Daubėnai (1), 15 06 2009, ~ 15 spec., 30 06 2009, 1 spec.

***Coenonympha hero* (Linnaeus, 1761)**

Daubėnai (1), 15 06 2009, ~ 50 spec., 30 06 2009, 1 spec.

***Coenonympha tullia* (Müller, 1764)**

Kanio Raistas bog, 08 07 2009, 1 spec.; Padumblė, 08 07 2009, 1 spec.

***Euphydryas maturna* (Linnaeus, 1758)**

Varlivos Miškas f., 11 06 2009, 3 spec., 28 06 2009, 5 spec.

***Lopinga achine* (Scopoli, 1763)**

Lapės geomorphological preserve, 28 06 2009, 1 spec.; Varlivos Miškas f., 11 06 2009, 3 spec., 28 06 2009, ~ 30 spec., 10 07 2009, 4 spec., 22 07 2009, 1 spec.; Kanio Raistas bog, 23 06 2009, 1 spec.; Padumblė, 23 06 2009, 2 spec., 08 07 2009, 2 spec.;

Daubėnai (1), 15 06 2009, 1 spec., 30 06 2009, ~ 15 spec., 14 07 2009, 3 spec.

***Melitaea didyma* (Esper, 1778)**

Kašėtos, 03 07 2009, ~ 15 spec.

***Melitaea phoebe* (Denis & Schiffermüller, 1775)**

Lapės geomorphological preserve, 11 06 2009, 3 spec., 28 06 2009, 1 spec.;

Daubėnai (1), 30 06 2009, 1 spec.

***Pararge aegeria* (Linnaeus, 1758)**

Lapės geomorphological preserve, 12 05 2009, 3 spec., 22 07 2009, 4 spec., 03 08 2009, 1 spec., 17 08 2009, 1 spec.; Varluvos Miškas f., 26 05 2009, 1 spec., 11 06 2009, 1 spec., 22 07 2009, 1 spec., 03 08 2009, 5 spec.

GEOMETRIDAE

***Baptria tibiale* (Esper, 1781)**

Varluvos Miškas f., 10 07 2009, 1 spec.

***Cabera leptographa* Wehrli, 1936**

Padumblė, 22 06 2009, 1 spec.

***Earophila badiata* (Denis & Schiffermüller, 1775)**

Padumblė, 10 05 2009, 1 spec.

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

Meškerinė, 25 07 2009, 1 spec.

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

Lapės, 02 08 2009, 2 spec.

***Eupithecia millefoliata* Rössler, 1866**

Lapės, 02 08 2009, 1 spec.

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

Lapės, 10 06 2009, 1 spec.

***Narraga fasciolaria* (Hufnagel, 1767)**

Meškerinė, 15 07 2009, ~ 20 spec.

***Pareulype berberata* (Denis & Schiffermüller, 1775)**

Lapės, 11 05 2009, 1 spec., 25 05 2009, 7 spec., 10 06 2009, 3 spec., 02 08 2009, 1 spec., 16 08 2009, 1 spec.

***Pasiphila chloerata* (Mabille, 1870)**

Lapės, 10 06 2009, 1 spec.

***Philereme transversata* (Hufnagel, 1767)**

Meškerinė, 15 07 2009, 1 spec., 25 07 2009, 1 spec.

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

Padumblė, 05 09 2009, 1 spec.

NOCTUIDAE

***Agnorisma punicea* (Hübner, 1803)**

Padumblė, 22 06 2009, 1 spec.

***Chilodes maritima* (Tauscher, 1806)**

Meškerinė, 04 08 2009, 1 spec.

***Cucullia lucifuga* (Denis & Schiffermüller, 1775)**

Lapės, 26 04 2009, 1 spec., 25 05 2009, 1 spec.

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

Lapės, 10 06 2009, 1 spec., 02 08 2009, 1 spec., 16 08 2008, 1 spec.; Meškerinė, 15 07 2009, 1 spec.

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

Meškerinė, 15 07 2009, 2 spec.

***Euxoa (Euxoa) obelisca* (Denis & Schiffermüller, 1775)**

Meškerinė, 03 09 2009, 2 spec.

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

Lapės, 27 06 2009, 1 spec.

***Hadena (Hadena) filograna* (Esper, 1788)**

Lapės, 10 06 2009, 1 spec.

***Hecatera bicolorata* (Hufnagel, 1766)**

Lapės, 11 05 2009, 2 spec., 25 05 2009, 1 spec.

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

Lapės, 25 05 2009, 1 spec., 10 06 2009, 4 spec., 16 08 2008, ~ 10 spec.

***Mesogona oxalina* (Hübner, 1803)**

Padumblė, 05 09 2009, 1 spec.

***Mythimna (Hyphilara) albipuncta* (Denis & Schiffermüller, 1775)**

Lapės, 25 05 2009, 1 spec., 10 06 2009, 3 spec., 27 06 2009, 1 spec., 16 08 2009, 3 spec.

***Noctua interposita* (Hübner, 1789)**

Lapės, 02 08 2009, 1 spec.

***Noctua janthina* (Denis & Schiffermüller, 1775)**

Lapės, 16 08 2009, 1 spec.

***Oligia fasciuncula* (Haworth, 1809)**

Lapės, 10 06 2009, 1 spec.

***Sideridis (Sideridis) turbida* (Hübner, 1813)**

Lapės, 10 06 2009, 1 spec.

LYMANTRIIDAE

***Calliteara fascelina* (Linnaeus, 1758)**

Meškerinė, 25 07 2009, 1 spec.

NOLIDAE

***Bena bicolorana* (Fuessly, 1775)**

Lapės, 02 08 2009, 1 spec.

***Meganola albula* (Denis & Schiffermüller, 1775)**

Meškerinė, 15 07 2009, 1 spec.

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

Lapės, 26 04 2009, 1 spec.

ARCTIIDAE

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

Mielupiai, 18 06 2009, 4 spec.

Discussion

53 rare Lepidoptera species were recorded for the studied regions during the research. 13 of them are included in the Lithuanian Red Data Book (Rašomavičius, 2006): *Carterocephalus palaemon* (Pallas, 1771), *Parnassius mnemosyne* (Linnaeus, 1758), *Papilio machaon* Linnaeus, 1758, *Lycaena dispar* (Haworth, 1802), *L. helle* (Denis & Schiffermüller, 1775), *Glaucopsyche (Maculinea) arion* (Linnaeus, 1758), *Plebeius (Aricia) eumedon* (Esper, 1780), *Euphydryas maturna* (Linnaeus, 1758), *Lopinga achine*

(Scopoli, 1763), *Coenonympha hero* (Linnaeus, 1761), *C. tullia* (Müller, 1764), *Baptria tibiale* (Esper, 1781) and *Tyria jacobaeae* (Linnaeus, 1758). Six species (*Parnassius mnemosyne* (Linnaeus, 1758), *Lycaena dispar* (Haworth, 1802), *L. helle* (Denis & Schiffermüller, 1775), *Euphydryas maturna* (Linnaeus, 1758), *Lopinga achine* (Scopoli, 1763), *Coenonympha hero* (Linnaeus, 1761)) are also protected in the European Union according to the Habitats Directive (Council Directive ..., 1992).

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Retos drugių (Lepidoptera) rūšys rastos Kauno, Švenčionių, Varėnos ir Vilniaus rajonuose 2009 metais

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Santrauka

Straipsnyje pateikiami duomenys apie 53 retas Lietuvoje drugių rūšis aptiktas Kauno, Švenčionių, Varėnos ir Vilniaus rajonuose 2009 metais. 13 iš jų - *Carterocephalus palaemon* (Pallas, 1771), *Parnassius mnemosyne* (Linnaeus, 1758), *Papilio machaon* Linnaeus, 1758, *Lycaena dispar* (Haworth, 1802), *L. helle* (Denis & Schiffermüller, 1775), *Glaucopsyche (Maculinea) arion* (Linnaeus, 1758), *Plebeius (Aricia) eumedon* (Esper, 1780), *Euphydryas aurinia* (Rottemburg, 1775), *E. maturna* (Linnaeus, 1758), *Lopinga achine* (Scopoli, 1763), *Coenonympha hero* (Linnaeus, 1761), *C. tullia* (Müller, 1764), *Baptria tibiale* (Esper, 1781) ir *Tyria jacobaeae* (Linnaeus, 1758) įrašytos į Lietuvos raudonąją knygą. Pateikiama informacija apie kiekvienos rūšies radvietę, stebėjimo datą ir stebėtų individų skaičių.

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