

RARE LEPIDOPTERA SPECIES REGISTERED IN RASEINIAI AND RADVILIŠKIS DISTRICTS (CENTRAL LITHUANIA) IN 2009

BERND GLIWA¹, DAIVA ŠEŠKAUSKAITĖ²

¹Sargeliai, LT-60433 Žaiginys, Raseiniai district. E-mail: gliwa@sargeliai.org

²Kaunas College of Forestry and Environmental Engineering, Liepų 1, LT-53101 Girionys, Kaunas district. E-mail: daiva@sargeliai.org

Introduction

Data given below was collected during butterfly monitoring and from monitoring accompanying projects to establish environment-friendly agriculture around the Praviršulio Tyrelis botanical-zoological preserve run by the association „Sargelių Bendruomenės Centras“. First results were already published (Gliwa & Šeškauskaitė 2008; Gliwa, 2009). However, findings of new species show that the area is still uncompletely studied.

Material and Methods

The area of observation includes sites situated in Raseiniai and Radviliškis administrative districts. Many of them make up the part of the Praviršulio Tyrelis conservation area. A number of observations was made alongside or in connection with butterfly monitoring. Pictures of nocturnal moths were taken mostly in Sargeliai, where they were attracted to light.

Imagos were identified on the basis of photographs only, which were published on the website of the Sargelių Bendruomenės Centras (2009). Two imagos of *Cucullia lucifuga* (Denis & Schiffermüller, 1775) were captured and preserved in the personal collection of Giedrius Švitra.

The selection of macrolepidoptera species for the publication of data follows Bačianskas *et al.* (2008). The nomenclature follows O. Karsholt & van E. J. Nieuwerkerken (2007).

List of localities

Radviliškis district	Praviršulio Tyrelis I	55°31'16"N, 23°26'3"E
	Praviršulio Tyrelis II	55°32'7"N, 23°29'3"E
	Praviršulio Tyrelis III	55°29'32"N, 23°28'23"E
Raseiniai district	Dubysa river bank near Betygala	55°21'11"N, 23°21'1"E
	Maslauskiškiai	55°22'5"N, 23°19'13"E
	Papušinys	55°27'58"N, 23°27'8"E
	Praviršulio Tyrelis IV	55°29'7"N, 23°28'27"E
	Raseiniai	55°23'25"N, 23°7'49"E
	Sargeliai I	55°28'34"N, 23°27'01"E
	Sargeliai II	55°28'34"N, 23°27'02"E
	Sargeliai III	55°28'38"N, 23°27'06"E

Sargeliai IV	55°28'34"N, 23°26'58"E
Sausmiškis	55°27'58"N, 23°27'1"E
Tautušiai	55°27'4"N, 23°25'5"E
Zvėgiai I	55°26'35"N, 23°25'16"E
Zvėgiai II	55°25'56"N, 23°25'13"E

Results

List of species

SPHINGIDAE

***Hemaris fuciformis* (Linnaeus, 1758)**

Sargeliai I, 06 2009, few. spec., usually feeding on *Lychnis viscaria* L.

HESPERIIDAE

***Thymelicus sylvestris* (Poda, 1761)**

Sargeliai II, June, July 2009, several spec.

PAPILIONIDAE

***Papilio machaon* (Linnaeus, 1758)**

Sargeliai III, 09 06 2009, 1 spec., 03 07 2009, 1 spec., 04 07 2009, 1 ♀ on *Pimpinella saxifraga*; 22 07 2009, 2 spec. (one of them laying eggs on *Pimpinella saxifraga*); Raseiniai, 28 07 2009, 1 ind.

LYCAENIDAE

***Satyrium spini* (Denis & Schiffermüller, 1775)**

Sargeliai I, 29 07 2009, 1 spec.

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

Zvėgiai I, 29 06 2009, 1 spec.

***Maculinea rebeli* (Hirschke, 1904)**

Maslauskiškiai, 27 06 2009, >20 spec., egg-laying on *Gentiana cruciata*, almost every plant being spotted with eggs.

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

Papušins, 30 06 2009 – end of July, > 30 spec.

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

Zvėgiai I, 29 06 2009, >20 spec.

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

Sargeliai I, 25 05 2009 until 28 06 2009, single specimens. Frequently feeding on *Berteroa incana*; Dubysa river bank near Betygala, 27 06 2009, single specimens

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

Sargeliai I, 10 09 2009, 1 ♀.

NYMPHALIDAE

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

Praviršulio Tyrelis I, 09 06 2009, >10 spec. feeding on blossoms of *Ledum palustre*.

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

Praviršulio Tyrelis II, 02 04 2009, 1 spec.; Praviršulio tyrelis IV, 01 05 2009, 1 spec.

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

Papušins, 25 05 2009, ~20 spec.; Praviršulio Tyrelis III, 26 05 2009 ~10 spec., 20 06 2009, >40 spec.

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

Sausmiškis, 28 06 2009 ~15 spec.

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

Sargeliai IV, 08 06 2009, 1 spec.

***Melitaea diamina* (Lang, 1789)**

Papušinys, 15 06 2009, 1 spec.

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

Sargeliai I, 30 05, 22 07, 06 08, 07 08, 2009; Zvėgiai II, 03 08 2009; Papušinys, 15 06 2009, single spec. only at forest edges or inside forests

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

Papušinys, 15 06 2009, few spec.

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

Praviršulio Tyrelis III, 20 06 2009, >20 spec.; 02 07 2009, >100 spec.

***Coenonympha hero* (Linnaeus, 1758)**

Papušinys, 15 06 2009, few spec.; Praviršulio Tyrelis III, 02 07 2009 >20 spec.

GEOMETRIDAE

***Eupithecia immundata* (Lienig, 1846)**

Sargeliai I, 23 07 2009, 2 caterpillars in *Actaea spicata* berries

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

Sargeliai I, 23 07 2009, 1 spec.

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

Sargeliai I, 09 08, 21 10 2009, 1 spec.

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

Sargeliai I, 23 07 2009, 1 spec.

***Baptria tibiale* (Esper, 1791)**

Sargeliai I, 17 07 2009, 1 spec., 07 08 2009, 1 caterpillar; Tautušiai, 03 08 2009, 1 caterpillar on *Actaea spicata* leaves.

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

Sargeliai I, 18 07 2009, 1 spec.

NOCTUIDAE

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

Sargeliai I, 29 07 2009, 4 spec.

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

Sargeliai I, 04 05 2009, 1 spec., 19 05 2009; 1 spec., (both spec. are preserved in the collection of G. Švitra), 15 07 2009, 1 spec.

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

Sargeliai I, 03 08 2009, 1 spec.

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

Sargeliai I, 12 06, 13 07 2009, 1 spec.

Discussion

30 rare species of Lepidoptera were registered in Raseiniai and Radviliškis administrative districts in 2009. Three rare species (*Baptria tibiale*, *Maculinea rebeli* and *Plebeius eumedon*) are included into the Lithuanian Red Data Book (Rašomavičius, 2007) and they were registered in Raseiniai district for the first time. The finding of *Maculinea rebeli* in the meadows of the Dubysa river shows that it could be wider

distributed along the rivers of Central Lithuania, so future studies are necessary.

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Retos drugių rūšys, užregistruotos Raseinių ir Radviliškio rajonuose 2009 metais

B. GLIWA, D. ŠEŠKAUSKAITĖ

Santrauka

Straipsnyje pateikiami duomenys apie saugomas ir retas drugių rūšis, užregistruotas Raseinių ir Radviliškio rajonuose 2009 metais. Tai yra vienas iš Sargelių bendruomenės centro vykdomų projektų, skatinant agrarinę aplinkosaugą šalia Praviršulio tyrelio botaninio-zoologinio draustinio ir kitose biologinės įvairovės atžvilgiu vertingose aplinkinėse teritorijose. Prie kiekvienos rūšies pateikiama radvietė, data, individų skaičius.

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