

DATA ON NEW AND RARE LEPIDOPTERA SPECIES FOR LITHUANIAN FAUNA*POVILAS IVINSKIS, JOLANTA RIMŠAITĖ*

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Introduction

New faunistic data on Lepidopteran fauna collected during the research in 2020–2021 in Lithuania are presented. Data on four species new for Lithuanian fauna, 165 rare or spreading species are presented in this paper.

Material and Methods

Lepidoptera were collected during the field investigations in 2020–2021 by the authors. Various entomological methods were used for collecting the specimens: light trapping using a screen (160W mixed light lamp), automatic traps with 300W solar-type lamps and headlamp "Lumonite"; plant mine collecting, also sweeping with entomological net. The material was identified using identification guides: Emmet (1996); Bengtsson *et al.* (2008), Bengtsson & Johansson (2011), Aarvik *et al.* (2009). Data on distribution and faunistics follows Aarvik *et al.* (2017, 2021) Ivinskis & Rimšaitė (2018). Taxonomical treatment and distribution follow the Fauna Europaea database (Karsholt & Nieuwerkerken, 2013). The specimens are deposited in the authors collection. Species new to Lithuanian fauna are marked in the text with an asterisk (*).

List of localities

Locality	Administrative district	Coordinates (LAT, LONG)
Baniškės	Vilnius mun.	54.74538, 25.38583
Buivydiškės	Vilnius district	54.71741, 25.1979
Būtingė	Palanga mun.	56.05954, 21.06995
Didžioji Riešė	Vilnius district	54.80803, 25.25443
Dukstynos Miškas f.	Ukmergė mun.	55.27957, 24.85081
Gvazdikai	Vilnius mun.	54.74997, 25.37807
Justiniškės	Vilnius mun.	54.72133, 25.20995
Juodeliai	Kalvarija mun.	54.38664, 23.10153
Kairėnai	Vilnius mun.	54.73853, 25.39745
Kalniškės	Vilnius district	54.84681, 25.17739
Kaltanėnai	Švenčionys district	55.25248, 25.98913
Karoliniškės	Vilnius mun.	54.68878, 25.20580
Karpėnų Miškas f.	Akmenė district	56.33484, 22.96051
Kaunas, Botanical garden	Kaunas mun.	54.87027, 23.91289
Kiškiai	Ignalina district	55.33229, 26.03389
Miškiniai	Vilnius mun.	54.67916, 25.23012

Merkinė	Varėna district.	54.15019, 24.16112
Naujieji Verkiai	Vilnius mun.	54.76612, 25.34668
Nevėža lake bank	Anykščiai district	55.45118, 25.15582
Pagojės pond	Anykščiai district	55.54282, 25.03504
Perloja	Varėna district	54.20778, 24.37556
Pirčiupių Miškas f.	Varėna district	54.37815, 24.94389
Raguva	Panevėžys district	55.56244, 24.62646
Raguvos Miškas f.	Panevėžys district	55.57977, 24.55451
Romainiai cemetery	Kaunas mun.	54.92057, 23.85097
Rūdninkų Giria f.	Šalčininkai district	54.38558, 25.10742
Šiauduva	Šilalė district	55.58282, 22.24281
Verkiai	Vilnius mun.	54.74531, 25.29099
Visoriai	Vilnius mun.	54.75364, 25.26448
Žalieji ežerai Preserve	Vilnius mun.	54.78583, 25.32301

List of species

HEPIALIDAE

Pharmacis fusconebulosa (DeGeer, 1778)

Kalniškės, 08 06 2021, 1 spec.

GRACILLARIIDAE

**Calybites quadrisignella* (Zeller, 1839)

Būtingė, 27 07 2021, 1 spec.; Dukstynos Miškas f., 25 07 2021, 1 mine on *Rhamnus cathartica*; Miškiniai, 08 2021, 20 mines on *Rhamnus cathartica*.

Parectopa robiniella (Clemens, 1859)

Baniškės, 15 08 2021, 1 mine on *Robinia pseudoacacia*; Karoliniškės, 06 08 2021, 15 mines on *Robinia pseudoacacia*, Kaunas, botanical garden, 05 08 2021, 10 mines on *Robinia pseudoacacia*; Merkinė, 31 07 2021, 5 mines on *Robinia pseudoacacia*; Miškiniai, 25 08 2021, 2 mines on *Robinia pseudoacacia*; Raguva, 20 08 2021, 14 mines on *Robinia pseudoacacia*; Romainiai cemetery, 05 08 2021, few mines on separate trees; Naujieji Verkiai, 13 08 2021, 4 mines; Visoriai, 18 08 2021, 1 mine.

Caloptilia fidella (Reutti, 1853)

Kiščiai, 18 08 2021, 1 mine on *Humulus*; Naujieji Verkiai, 13 08 2021, distinctive mines on *Humulus*; Šiauduva, 27 07 2021, a few initiative mines on *Humulus*; Verkiai, 29 07 2021, mines on *Humulus*.

Caloptilia semifascia (Haworth, 1828)

Gvazdikai, 12 08 2021, 1 spec., 13 08 2021, 2 spec.

YPONOMEUTIDAE

Yponomeuta irrorella (Hübner, 1796)

Dukstynos Miškas f., 25 07 2021, 1 spec.; Gvazdikai, 14 07 2021, 1 spec.

Yponomeuta sedella Treitschke, 1832

Gvazdikai, 24, 29 07 2021, 3 spec.

PLUTELLIDAE

Plutella porrectella (Linnaeus, 1758)

Gvazdikai, 02 10 2021, 1 spec.

Rhigognostis incarnatella (Steudel, 1873)

Kalniškės 21 04 2021, 1 spec., 24 04 2021, 1 spec.

***Eidophasia hufnagelii* (Zeller, 1839)**

Gvazdikai, 30 08 2021, 1 spec.

GLYPHIPTERIGIDAE

***Orthotelia sparganella* (Thunberg, 1788)**

Dukstynos Miškas f., 14 07 2021, 1 spec.

YPSOLOPHIDAE

***Ypsolopha asperella* (Linnaeus, 1761)**

Kalniškės, 05 05 2021, 1 spec.

URODIDAE

***Wockia asperipunctella* (Bruand, 1851)**

Kalniškės, 24 06 2021, 1 spec.

TORTRICIDAE

***Pandemis dumetana* (Treitschke, 1835)**

Dukstynos Miškas f., 25 07 2021, 1 spec.; Karpėnų Miškas f., 09 07 2021, 3 spec.

***Acleris abietana* (Hübner, 1822)**

Kalniškės, 17 05 2021, 1 spec., 25 05 2021, 1 spec.

***Acleris cristana* (Denis & Schiffermüller, 1775)**

Kalniškės, 29 03 2021, 1 spec., 09 04 2021, 2 spec., 10 05 2021, 1 spec., 15 05 2021, 1 spec., 16 05 2021, 1 spec., 17 05 2021, 1 spec., 23 09 2021, 1 spec., 24 09 2021, 1 spec.

***Acleris umbrana* (Hübner, 1799)**

Kalniškės, 16 03 2021, 2 spec.

***Enarmonia formosana* (Scopoli, 1763)**

Kalniškės, 27 08 2021, 1 spec.

SESIIDAE

***Synanthedon formicaeformis* (Esper, 1783)**

Būtingė, 27 07 2021, 2 spec.

COSSIDAE

***Zeuzera pyrina* (Linnaeus, 1761)**

Gvazdikai, 05 07 2021, 1 spec.; Juodeliai, 22 06 2021, 1 spec., Kalniškės, 25 06 2021, 1 spec.

AUTOSTICHIDAE

***Oegoconia deauratella* (Herrich-Schäffer, 1854)**

Gvazdikai, 05 07 2021, 3 spec., 13 07 2021, 4 spec.

OECOPHORIDAE

***Deuterogonia pudorina* (Wocke, 1857)**

Gvazdikai, 05 07 2021, 1 spec., 13 07 2021, 1 spec., 16 07 2021, 4 spec.; Merkinė, 15 07 2021, 2 spec.; Rekečių Miškas f., 07 07 2021, 4 spec.

***Borkhausenia fuscescens* (Haworth, 1828)**

Pirčiupių Miškas f., 18 08 2020, 1 male.

***Semioscopis oculella* (Thunberg, 1794)**

Kalniškės, 11 04 2021, 1 spec., 12 04 2021, 1 spec.

***Semioscopis steinkellnerana* (Denis & Schiffermüller, 1775)**

Kalniškės, 11 04 2021, 1 spec., 12 04 2021, 3 spec., 16 04 2021, 1 spec., 18 04 2021, 2 spec., 20 04 2021, 3 spec., 29 04 2021, 2 spec., 09 05 2021, 1 spec., 10 05 2021, 1 spec., 16 05 2021, 1 spec.

***Semioscopis strigulatella* (Fabricius, 1787)**

Kalniškės, 12 04 2021, 2 spec., 16 04 2021, 1 spec.

***Depressaria capreolella* (Zeller, 1839)**

Kalniškės, 31 03 2021, 1 spec., 12 05 2021, 1 spec.

***Anchinia daphnella* (Denis & Schiffermüller, 1775)**

Kalniškės, 13 07 2021, 1 spec.

***Orophia ferrugella* (Denis & Schiffermüller, 1775)**

Gvazdikai, 05 07 2021, 1 spec.; Kalniškės, 05 07 2021, 1 spec.

GELECHIIDAE

****Nothris verbascella* (Denis & Schiffermüller, 1775)**

Gvazdikai, 10 09 2021, 1 spec.

***Dichomeris rasilella* (Herrich-Schäffer, 1854)**

Kalniškės, 06 07 2021, 1 spec., 10 07 2021, 1 spec., 14 07 2021, 1 spec.; Karpėnų miškas f., 09 07 2021, 1 spec.

***Mirificarma lentiginosella* Zeller, 1839)**

Perloja, 17 08 2020, 2 males.

***Gelechia jakovlevi* Krulikovsky, 1905**

Gvazdikai, 24 07 2021, 1 spec.

ELACHISTIDAE

***Elachista subalbidella* (Schläger, 1847)**

Kalniškės, 26 05 2021, 1 spec., 31 05 2021, 1 spec.

COLEOPHORIDAE

***Coleophora saponariella* Heeger, 1848**

Dukstyna Miškas f., 25 07 2021, abundant mines on *Saponaria officinalis*; Miškiniai, few sacs; Būtingė, 27 07 2021, abundant mines and sacs on *Saponaria*.

THYRIDIDAE

****Thyris fenestrella* (Scopoli, 1763)**

Gvazdikai, 25–30 07 2021, 1 spec. (in pheromone trap for *Cacoecimorpha pronubana* Hb.).

PTEROPHORIDAE

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

Kalniškės, 10 07 2021, 1 spec.

PAPILIONIDAE

***Papilio machaon* Linnaeus, 1758**

Kalniškės, 16 07 2021, 1 spec., 21 07 2021, 1 spec., 06 08 2021, 1 first instar caterpillar on *Petroselinum*; Vievis, 12 05 2021, 1 spec.

NYMPHALIDAE

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

Kairėnai, meadow, 14 06 2021, 2 spec.

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

Dukstynos Miškas f., 11 04 2021, 2 females., Karoliniškės, 06 07 2021, 1 spec., 16 07 2021, 1 female; Karoliniškės, in garage, 20 09 2021, 1 spec.

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

Nevėža lake bank, 24 08 2021, 4 caterpillars on *Fraxinus*.

***Apatura ilia* (Denis & Schiffermüller, 1775)**

Kalniškės, 12 09 2021, 1 female (in wine trap).

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

Juodeliai, 22 06 2021, 1 spec.

***Melanargia galathea* (Linnaeus, 1758)**

Merkinė, 15 07 2021, 1 spec.

LYCAENIDAE

***Lysandra coridon* (Poda, 1761)**

Merkinė, 15 07 2021, 1 spec., 30 07 2021, 3 spec.

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

Gvazdikai, 08 08 2021, 1 spec.; Kairėnai, rivulet Upelė bank, 05 07 2021, 1 spec.;
Pagojės pond, meadow, 24 08 2021, 2 males.

PYRALIDAE

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

Kalniškės, 18 07 2021, 1 spec.

***Pima boisduvaliella* (Guenée, 1845)**

Būtingė, 27 07 2021, 1 spec.

***Nephoterix angustella* (Hübner, 1796)**

Dukstynos Miškas f., 25 07 2021, 5 spec.; Gvazdikai, 13 07 2021, 2 spec., 16 07
2021, 4 spec., 08 08 2021, 1 spec., 09 08 2021, 4 spec., 26 08 2021, 1 spec., 10 09
2021, 1 spec., 11 09 2021, 1 spec.; Juodeliai, 22 06 2021, 1 spec.; Kalniškės, 24 06
2021, 1 spec.; Merkinė, 15 07 2021, 9 spec.

***Eurhodope cirrigerella* Zincken, 1818)**

Kalniškės, 03 07 2021, 1 spec., 10 07 2021, 1 spec.

CRAMBIDAE

***Pyrausta sticticalis* (Linnaeus, 1761)**

Gvazdikai, 16 07 2021, 2 spec.

***Sclerocona acutella* (Eversmann, 1842)**

Kalniškės, 17 06 2021, 1 spec., 21 06 2021, 6 spec., 22 06 2021, 2 spec., 23 06 2021,
1 spec., 24 06 2021, 1 spec., 25 06 2021, 1 spec., 26 06 2021, 2 spec.

***Anania perlucidalis* (Hübner, 1809)**

Kalniškės, 06 06 2021, 1 spec., 26 06 2021, 2 spec., 27–28 06 2021, 2 spec.

***Nomophila noctuella* (Denis & Schiffmüller, 1775)**

Gvazdikai, 16 07 2021, 1 spec., 28 07 2021, 1 spec., 3 08 2021, 2 spec., 05 08 2021,
1 spec., 07 08 2021, 1 spec., 09 08 2021, 3 spec., 10 08 2021, 4 spec., 11 08 2021, 1
spec., 12 08 2021, 2 spec., 13 08 2021, 7 spec., 15 08 2021, 2 spec., 16 08 2021, 6
spec., 20 08 2021, 1 spec., 27 08 2021, 1 spec.

***Cydalima perspectalis* (Walker, 1859)**

Buivydiškės, 25 08 2021, damages on 22 bushes of boxwood (*Buxus sempervirens*)
(J. Sendžikaitė), Didžioji Riešė, cemetery, 25 08 2021, two boxwood bushes
damaged; Gvazdikai, 20 08 2021, 1 spec.; Justiniškės, 06 08 2021, on five boxwoods
negligible damage; Kaunas, botanical garden, 05 08 2021, negligible damages on two
bushes of boxwood; Kairėnai, cemetery, on three bushes of boxwood, negligible
damages, one pupa found; Naujieji Verkiai, 13 08 2021, negligible damage on
boxwood; Romainiai, cemetery, 05 08 2021, significant damage in all cemetery,
many bushes of boxwood with destroyed leaves.

***Atralata albofascialis* (Treitschke, 1829)**

Karpėnų Miškas f., 09 08 2021, 4 mines on *Inula britannica*.

***Cynaeda dentalis* (Denis & Schiffermüller, 1775)**

Kalniškės, 18 07 2021, 1 spec.

***Cynaeda pustulalis* (Hübner, 1823)**

Merkinė, 30 07 2021, 3 spec.

***Evergestis limbata* (Linnaeus, 1767)**

Juodeliai, 22 06 2021, 1 spec.; Karpėnų Miškas f., 09 07 2021, 1 spec.

***Calamotropha aureliellus* (Fischer von Röslerstamm, 1841)**

Kalniškės, 10 07 2021, 1 spec., 16 07 2021, 1 spec. (Fig. 6)

***Scirpophaga praelata* (Scopoli, 1763)**

Kalniškės, 14 07 2021, 1 spec.

DREPANIDAE

***Watsonalla binaria* (Hufnagel, 1767)**

Gvazdikai, 13 07 2021, 1 spec., 16 07 2021, 2 spec. 16 08 2021, 1 spec., 20 08 2021, 1 spec., 25 08 2021, 1 spec., 28 08 2021, 1 spec.; Kalniškės, 13 07 2021, 1 spec., 16 07 2021, 1 spec.; Perloja, 22 07 2021, 1 spec.; Raguvos Miškas f., 18 07 2021, 3 spec.

***Sabra harpagula* (Esper, 1786)**

Juodeliai, 22 06 2021, 5 spec., 02 07 2021, 1 ind.; Kalniškės, 21 06 2021, 2 spec., 25 06 2021 1 spec., 30 06 2021, 1 spec., 15 07 2021, 1 spec., 10 08 2021, 1 spec., 14 08 2021, 1 spec., 16 08 2021, 1 spec.; Merkinė, 15 07 2021, 2 spec.

***Polyploca ridens* (Fabricius, 1787)**

Kalniškės, 29 04 2021, 1 spec.

GEOMETRIDAE

***Euphyia unangulata* (Haworth, 1809)**

Merkinė, 03 07 2021, 1 spec., 30 07 2021, 1 spec.

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

Dukstynos Miškas f., 90 06 2021, 1 spec.

***Eustroma reticulata* (Denis & Schiffermüller, 1775)**

Juodeliai, 22 06 2021, 2 spec.

***Lampropteryx otregiata* (Metcalf, 1917)**

Dukstynos Miškas f., 25 07 2021, 3 spec.; Kalniškės, 02 06 2021, 1 spec., 07 06 2021, 1 spec., 17 06 2021, 1 spec.

***Epirrita chrystii* (Allen, 1906)**

Kalniškės, 22 09 2021, 1 male, 02 10 2021, 1 male, 05 10 2021, 1 male.

***Venusia blomeri* (Curtis, 1832)**

Kalniškės, 21 06 2021, 1 spec.

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

Gvazdikai, 25 08 2021, 1 spec.; Merkinė, 30 07 2021, 2 spec.

***Chloroclystis v-ata* (Haworth, 1809)**

Kalniškės, 16 05 2021, 1 spec., 17 05 2021, 1 spec.

***Eupithecia insigniata* (Hübner, 1790)**

Kalniškės, 13 05 2021, 1 spec.

***Chesias legatella* (Denis & Schiffermüller, 1775)**

Kalniškės, 02 10 2021, 1 spec.

***Acasis viretata* (Hübner, 1799)**

Kalniškės, 09 05 2021, 1 spec.

***Lomaspilis opis* Butler, 1878**

Juodeliai, 22 06 2021, 1 spec.; Kalniškės, 27 05 2021, 1 spec., 08 06 2021, 1 spec., 28 06 2021, 1 spec.

***Stegania cararia* (Hübner, 1790)**

Juodeliai, 22 06 2021, 1 spec.

***Isturgia arenacearia* (Denis & Schiffermüller, 1775)**

Kalniškės, 16 08 2021, 1 spec.; Perloja, 15 07 2021, 6 spec.

***Agriopsis marginaria* (Fabricius, 1776)**

Kalniškės, 25 03 2021, 3 spec., 26-27 03 2021, 3 spec., 29 03 2021, 1 spec., 04 04 2021, 1 spec. (wine trap), 12 04 2021 1 spec., 17 04 2021, 2 spec., 18 04 2021, 2 spec.

***Peribatodes rhomboidaria* (Denis & Schiffermüller, 1775)**

Dukstynos miškas f., 90 06 2021, 1 spec.

***Peribatodes secundaria* (Denis & Schiffermüller, 1775)**

Kalniškės, 13 07 2021, 2 spec.; Raguvo Miškas f., 18 07 2021, 1 spec.

***Apeira syringaria* (Linnaeus, 1758)**

Dukstynos miškas f., 30 06 2021, 1 spec.; Gvazdikai, 10 09 2021, 1 spec.

***Ourapteryx sambucaria* (Linnaeus, 1758)**

Juodeliai, 22 06 2021, 1 spec., Kalniškės, 02 07 2021, 1 spec., 03 07 2021, 1 spec., 04 07 2021, 2 spec., 05 07 2021, 5 spec., 05 07 2021, 1 spec., 07 07 2021, 1 spec.

***Campaea margaritaria* (Linnaeus, 1761)**

Kalniškės, 14 09 2021, 1 spec.

***Charissa obscurata* (Denis & Schiffermüller, 1775)**

Perloja, 22 07 2021, 1 spec.

***Cleorodes lichenaria* (Hufnagel, 1767)**

Karpėnų Miškas f., 09 07 2021, 2 spec.

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

Perloja, 11 07 2021, 1 spec., 22 07 2021, 5 spec.; Pirčiupių Miškas f., 07 07 2021, 1 spec.

URANIIDAE

***Eversmania exornata* (Eversmann, 1837)**

Kalniškės, 21 06 2021, 1 spec.

LASIOCAMPIDAE

***Eriogaster lanestris* (Linnaeus, 1758)**

Kalniškės, 31 03 2021, 1 spec.

***Lasiocampa trifolii* (Denis & Schiffermüller, 1775)**

Gvazdikai, 07 08 2021, 1 spec.; Kalniškės, 10 08 2021, 1 spec., 16 08 2021, 1 spec., 17 08 2021, 1 spec.

***Lasiocampa quercus* (Linnaeus, 1758)**

Dukstynos Miškas f., 12 07 2021, 4 spec.; Kalniškės, 07 07 2021, 1 spec., 08–09 07 2021, 1 spec., 10 07 2021, 1 spec., 12 07 2021, 1 spec., 15 07 2021, 1 spec., 16 07 2021, 1 spec.

***Cosmotriche lobulina* (Denis & Schiffermüller, 1775)**

Gvazdikai, 11 08 2021, 1 spec., 16 08 2021, 1 spec., 17 08 2021, 1 spec.

***Gastropacha quercifolia* (Linnaeus, 1758)**

Dukstynos Miškas f., 12 07 2021, 1 spec.; Kalniškės, 02 07 2021, 1 spec.; 06 07 2021, 1 spec., 13 07 2021, 1 spec.; Karpėnų Miškas f., 09 07 2021, 1 spec.; Merkinė, 15 07 2021, 2 spec.; 22 07 2021, 1 spec.; Perloja, 11 07 2021, 4 spec., 22 07 2021, 1 spec.

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

Dukstynos miškas f., 30 06 2021, 1 spec.; Kalniškės, 21 06 2021, 1 spec., 25 06 2021, 1 spec., 09 09 2021, 1 spec.; Merkinė, 15 07 2021, 5 spec.; Perloja, 11 07 2021, 35 spec.

SPHINGIDAE

***Laothoe amurensis* (Fischer von Waldheim, 1830)**

Kalniškės, 24 05 2021, 1 spec., 29 05 2021, 1 spec., 31 05 2021, 2 spec., 02 06 2021, 2 spec., 02 06 2021, 1 spec., 04 06 2021, 2 spec., 03 08 2021 1 spec., 08 08 2021, 1 spec., 11 08 2021, 1 spec.

***Deilephila elpenor* (Linnaeus, 1758)**

Gvazdikai, 29 08 2021, 1 spec.; Kalniškės, 28 08 2021, 1 spec. (in wine trap).

NOTODONTIDAE

***Cerura erminea* (Esper, 1783)**

Dukstynos Miškas f., 25 07 2021, 1 spec.

***Drymonia velitaris* (Hufnagel, 1766)**

Merkinė, 15 07 2021, 1 spec.

***Notodonta torva* (Hübner, 1803)**

Dukstynos Miškas f., 12 07 2021, 3 spec.

***Peridea anceps* (Goeze, 1781)**

Kalniškės, 17 05 2021, 1 spec., 22 05 2021, 1 spec., 03 06 2021, 1 spec.

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

Gvazdikai, 05 07 2021, 1 spec.; Kalniškės, 02 07 2021, 1 spec., 08–09 07 2021, 11 07 2021, 1 spec., 16 07 2021, 1 spec.; Perloja, 11 07 2021, 1 spec.

***Odontosia sieversii* (Ménétriés, 1856)**

Kalniškės, 11 04 2021, 1 spec.

***Pygaera timon* (Hübner, 1803)**

Kalniškės, 02 06 2021, 1 spec., 03 06 2021, 1 spec., 07 06 2021, 2 spec., 08 06 2021, 1 spec.

***Clostera anachoreta* (Denis & Schiffermüller, 1775)**

Dukstynos Miškas f., 1 spec.; Merkinė, 30 07 2021, 1 spec.; Pirčiupių Miškas f., 07 07 2021, 1 spec.

***Clostera anastomosis* (Linnaeus, 1758)**

Dukstynos Miškas f., 1 spec.; Juodeliai, 22 06 2021, 2 spec.; Merkinė, 15 07 2021, 1 spec.

EREBIDAE

***Arctornis l-nigrum* (Müller, 1764)**

Gvazdikai, 11 08 2021, 1 spec.; Juodeliai, 22 06 2021, 3 spec., Kalniškės, 02 07 2021, 1 spec., 03 07 2021, 1 spec., 04 07 2021, 1 spec., 07 07 2021, 1 spec., 08-09 07 2021, 2 spec., 13 07 2021, 1 spec., 14 07 2021, 1 spec.

***Calliteara abietis* (Denis & Schiffermüller, 1775)**

Gvazdikai, 27 08 2021, 1 spec., 29 08 2021, 1 spec., 30 08 2021, 3 spec., 02 09 2021, 1 spec., 11 09 2021, 1 spec.; Kalniškės, 28 08 2021, 1 spec., 29 08 2021, 1 spec., 09 09 2021, 2 spec., 10 09 2021, 1 spec., 13 09 2021, 1 spec.

***Sphrageidus similis* (Fuessly, 1775)**

Gvazdikai, 10 09 2021, 1 spec., 11 09 2021, 1 spec.

***Pelosia obtusa* (Herrich-Schäffer, 1847)**

Kalniškės, 13 07 2021, 1 spec., 16 07 2021, 4 spec.

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

Vievis, 03 06 2021, 1 spec.

***Diachrisia sannio* (Linnaeus, 1758)**

Kalniškės, 07 09 2021, 1 spec.

***Diachrisia purpurata* (Linnaeus, 1758)**

Kalniškės, 29 06 2021, 1 spec., 03 07 2021 1 spec.; Pirčiupių Miškas f., 07 07 2021, 1 spec.

***Arctia matronula* (Linnaeus, 1758)**

Perloja, 11 07 2021, 1 spec.

***Caliptra thalictri* (Borkhausen, 1790)**

Dukstynos Miškas f., 12 07 2021, 3 spec., 25 07 2021, 2 spec.; Merkinė, 30 07 2021, 1 spec.; Perloja, 11 07 2021, 1 spec.; Raguvos Miškas f., 18 07 2021, 1 spec.

***Catocala promissa* (Denis & Schiffermüller, 1775)**

Dukstynos Miškas f., 25 07 2021, 1 spec.

NOCTUIDAE

***Lamprotes c-aureum* (Knoch, 1781)**

Dukstynos Miškas f., 12 07 2021, 8 spec., 25 07 2021, 1 spec.; Kalniškės, 02 07 2021, 1 spec., 08–09 07 2021, 2 spec.; Perloja, 11 07 2021, 4 spec.; Raguvos Miškas f., 18 07 2021, 2 spec.; Pirčiupių Miškas f., 07 07 2021, 1 spec.

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

Pirčiupių Miškas f., 07 07 2021, 1 spec.

***Autographa mandarina* (Freyer, 1845)**

Kalniškės, 10 07 2021, 1 spec.; Merkinė, 30 07 2021, 1 spec.

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

Kalniškės, 13 07 2021, 1 spec.

***Cucullia fraudatrix* Eversmann, 1837**

Kalniškės, 05 07 2021, 1 spec.

***Ampiphysa perflua* (Fabricius, 1787)**

Dukstynos Miškas f., 12 07 2021, 1 spec., 25 07 2021, 1 spec.; Gvazdikai, 07 08 2021, 1 spec., 08 08 2021, 1 spec.; Kalniškės, 14 07 2021, 1 spec., 29 07 2021, 1 spec., 31 07 2021, 2 spec., 05 06 2021, 1 spec. (in wine trap), 07 08 2021, 1 spec. (in wine trap), 09 08 2021, 2 spec. (in wine trap), 10–11 08 2021, 1 spec. (in wine trap), 13–14 08 2021, 3 spec. (in wine trap), 16 08 2021, 2 spec., 19 08 2021, 2 spec., 26 08 2021, 1 spec.

***Acronictaalni* (Linnaeus, 1767)**

Dukstynos Miškas f., 25 07 2021, 2 spec.; Kalniškės, 31 07 2021, 1 spec. (in wine trap); Raguvos Miškas f., 18 07 2021, 4 spec.

***Acronicta leporina* (Linnaeus, 1758)**

Dukstynos Miškas f., 25 07 2021, 1 spec.; Gvazdikai, 05 07 2021, 1 spec., 10 07 2021, 2 spec., 13 08 2021, 1 spec.; Kalniškės, 21 06 2021, 2 spec., 02 07 2021, 1 ind., 05 07 2021, 1 spec., 05 08 2021, 1 spec., 14 08 2021, 1 spec.; Karpėnų Miškas f. 09 07 2021, 2 spec.; Merkinė, 15 07 2021, 2 spec., 30 07 2021, 5 spec.; Pirčiupių Miškas f., 07 07 2021, 2 spec.

***Acronicta albovenosa* (Goeze, 1781)**

Būtingė, 27 07 2021, 1 spec.; Dukstynos Miškas f., 12 07 2021, 1 spec. 25 07 2021, 1 spec.; Gvazdikai, 16 07 2021, 3 spec.; Kalniškės, 14 07 2021, 1 spec., 16 07 2021, 3 spec.; Karpėnų Miškas f. 09 07 2021, 1 spec.; Merkinė, 15 07 2021, 1 spec.; Raguvos Miškas f., 18 07 2021, 1 spec.

***Cryphia algae* (Fabricius, 1775)**

Būtingė, 27 07 2021, 1 spec.

***Calloplistria juvenina* (Stoll, 1782)**

Gvazdikai, 05 07 2021, 1 spec.; Kalniškės, 16 07 2021, 1 spec. 03 08 2021, 3 spec.; Karpėnų Miškas f., 09 07 2021, 1 spec.; Merkinė, 15 07 2021, 3 spec.; Perloja, 11 07 2021, 6 spec.; Raguvos Miškas f., 18 07 2021, 1 spec.; Pirčiupių Miškas f., 07 07 2021, 2 spec.

***Caradrina clavipalpis* (Scopoli, 1763)**

Kalniškės, 12 05 2021, 1 spec.

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

Kalniškės, 13 07 2021, 1 spec.

***Phlagophora meticulosa* (Linnaeus, 1758)**

Gvazdikai, 05 10 2021, 1 spec. (wine trap).

***Calamia tridens* (Hufnagel, 1766)**

Merkinė, 30 07 2021, 4 spec.; Perloja, 22 07 2021, 1 spec.

****Hydraecia nordstroemi* Hoeke, 1952**

Būtingė 27 07 2021, 1 spec.

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

Kalniškės, 30 09 2021, 1 spec.

***Lenisa geminipuncta* (Haworth, 1809)**

Kalniškės, 10 08 2021, 1 spec.

***Apamea epomidion* (Haworth, 1809)**

Kalniškės, 03 07 2021, 1 spec., 05 07 2021, 1 spec.

***Apamea remissa* (Hübner, 1809)**

Akmenė, 09 07 2021, 3 spec.

***Apamea scolopacina* (Esper, 1788)**

Pirčiupių Miškas f., 07 07 2021, 1 spec.

***Apamea sublustris* (Esper, 1788)**

Dukstynos miškas f., 90 06 2021, 1 spec.; Juodeliai, 22 06 2021, 3 spec.

***Xylomoia graminea* (Graeser, 1889)**

Kalniškės, 27-28 06 2021, 2 spec.

***Brachyloimia viminalis* (Fabricius, 1776)**

Kalniškės, 18 07 2021, 1 spec.

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

Kalniškės, 02 09 2021, 1 spec. (in wine trap), 09 09 2021, 1 spec., 11 09 2021, 1 spec.

***Conistra rubiginea* (Denis & Schiffermüller, 1775)**

Kalniškės, 12 04 2021, 1 spec., 16 04 2021, 2 spec.

***Conistra rubiginosa* (Scopoli, 1763)**

Kalniškės, 12 04 2021, 1 spec.

***Lithophane consocia* (Borkhausen, 1792)**

Gvazdikai, 08 10 2021, 1 spec. (in wine trap); Kalniškės, 11 04 2021, 1 spec.

***Lithophane lamda* (Fabricius, 1787)**

Kalniškės, 31 03 2021, 1 spec.

***Lithophane socia* (Hufnagel, 1766)**

Gvazdikai, 15 09 2021, 1 spec. (in wine trap), 27 09 2021, 1 spec. (in wine trap), 04 10 2021, 1 spec. (in wine trap); Kalniškės, 20 08 2021, 1 spec. (in wine trap), 21 08 2021, 1 spec. (in wine trap), 23 08 2021, 1 spec. (in wine trap), 25-26 2021, 1 spec. (in wine trap), 04 09 2021, 1 spec., 07 09 2021, 1 spec., 08 09 2021, 1 spec. (in wine trap), 09 09 2021, 1 spec. (in wine trap), 14 09 2021, 1 spec. (in wine trap).

***Xylena solidaginis* (Hübner, 1803)**

Gvazdikai, 02 09 2021, 2 spec., 05 09 2021, 1 spec. (wine trap), 07 09 2021, 1 spec. (in wine trap), 10 09 2021, 1 spec.; Kalniškės, 07 09 2021, 1 spec.

***Griposia aprilina* (Linnaeus, 1758)**

Gvazdikai, 02 10 2021, 1 spec.; Kalniškės, 10 09 2021, 1 spec., 16 09 2021, 1 spec., 02 10 2021, 1 spec. 04 10 2021, 1 spec.

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

Kalniškės, 23 09 2021, 1 spec. (in wine trap).

***Orthosia gracilis* (Denis & Schiffermüller, 1775)**

Kalniškės, 17 04 2021, 1 spec., 21 04 2021, 1 spec.

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

Perloja, 22 07 2021, 1 spec.

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

Būtingė, 27 07 2021, 1 spec.; Gvazdikai, 11 08 2021, 1 spec., 26 08 2021, 1 spec.; Juodeliai, 22 06 2021, 2 spec., 10 09 2021, 1 spec.; Kalniškės, 08 06 2021, 1 spec., 10 08 2021, 1 spec., 10-11 08 2021, 1 spec. (in wine trap), 12 08 2021, 1 spec., 13-14 08 2021, 2 spec., 16 08 2021, 1 spec., 19 08 2021, 3 spec., 22 08 2021, 1 spec., 25 08 2021, 1 spec., 30 08 2021, 1 spec.; Merkinė, 30 07 2021, 2 spec.

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

Gvazdikai, 05 07 2021, 1 spec., 14 07 2021, 1 spec., 19 08 2021, 2 spec. (one of them in wine trap), 26 08 2021, 1 spec., 22 09 2021, 1 spec. (in wine trap), 02 10 2021, 1 spec.; Kalniškės, 02 07 2021, 1 spec., 10 09 2021, 1 spec., 17 09 2021, 1 spec. (in wine trap), 25 09 2021, 2 spec. (in wine trap), 25 09 2021, 1 spec., 30 09 2021, 1 spec. (in wine trap), 02 10 2021, 1 spec.

***Mythimna pudorina* (Denis & Schiffermüller, 1775)**

Dukstynos miškas f., 90 06 2021, 1 spec.; Kalniškės, 25 06 2021, 1 spec., 27-28 06 2021, 2 spec., 03 07 2021, 1 spec., 02 07 2021, 1 spec., 04 07 2021, 1 spec., 05 07 2021, 2 spec., 06 07 2021, 1 spec.; Karpėnų Miškas f., 09 07 2021, 1 spec.

***Leucania obsoleta* (Hübner, 1803)**

Dukstynos miškas f., 90 06 2021, 2 spec.; Juodeliai, 22 06 2021, 1 spec.; Kalniškės, 21 06 2021, 1 spec., 23 06 2021, 1 spec., 24 06 2021, 1 spec., 02 07 2021, 1 spec., 16 07 2021, 1 spec.

***Senta flammea* (Curtis, 1828)**

Kalniškės, 08 06 2021, 1 spec., 10 06 2021, 1 spec.

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

Pirčiupių Miškas f., 07 07 2021, 1 spec.

Fig. 1. *Calybitis quadrisignella* imagoFig. 2. Mines of *C. quadrisignella* on *R. cathartica*Fig. 3. *Nothris verbascella*Fig. 4. *Thyris fenestrella*Fig. 5. *Hydraecia nordstroemi* (photo R. Markevičiūtė)Fig. 6. *Eversmania exornata* (photo R. Markevičiūtė)***Agrotis bigramma* (Esper, 1790)**

Gvazdikai, 07 08 2021, 1 spec.

***Agrotis ipsilon* (Hufnagel, 1766)**

Gvazdikai, 19 08 2021, 1 spec. (in wine trap); Kalniškės, 09 09 2021, 1 spec., 21 09

2021, 1 spec. (in wine trap), 16 10 2021, 1 spec.

***Agrotis segetum* (Denis & Schiffermüller, 1775)**

Gvazdikai, 10 09 2021, 1 spec.; Kalniškės, 01 09 2021, 1 spec., 05 09 2021, 1 spec.

***Noctua comes* (Hübner, 1813)**

Gvazdikai, 08 08 2021, 2 spec.; Kalniškės, 03 08 2021, 1 spec., 06 08 2021, 1 spec.

***Noctua interjecta* (Hübner, 1803)**

Būtingė, 27 07 2021, 1 spec.; Gvazdikai, 08 08 2021, 2 spec.; Kalniškės, 10 08 2021, 1 spec.; Perloja, 22 07 2021, 1 spec.

***Noctua interposita* (Hübner, 1803)**

Kalniškės, 28 08 2021, 1 spec.

***Noctua janthe* (Borkhausen, 1792)**

Gvazdikai, 29 08 2021, 1 spec.; Kalniškės, 08 08 2021, 1 spec., 16 08 2021, 1 spec., 19 08 2021, 1 spec., 23 08 2021, 1 spec., 25 08 2021, 1 spec., 02 09 2021, 1 spec., 08 09 2021, 1 spec.; Merkinė, 15 07 2021, 5 spec.; Raguvos Miškas f., 18 07 2021, 5 spec.

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

Būtingė, 27 07 2021, 1 spec.; Gvazdikai, 07 08 2021, 1 spec., 10 08 2021, 2 spec.; Kalniškės, 05-06 08 2021, 1 spec. (in wine trap); Merkinė, 15 07 2021, 7 spec.; Perloja, 11 07 2021, 1 spec., 22 07 2021, 1 spec.

***Noctua orbona* (Hufnagel, 1766)**

Kalniškės, 07 07 2021, 1 spec., 10 08 2021, 1 spec., 16 08 2021, 1 spec., 17 08 2021, 1 spec., 29 08 2021, 2 spec.

***Cryptocala chardinyi* (Boisduval, 1829)**

Karpėnų Miškas f., 09 07 2021, 1 spec.

***Xestia castanea* (Esper, 1798)**

Gvazdikai, 05 08 2021, 1 spec.

***Xestia stigmatica* (Hübner, 1813)**

Gvazdikai, 05 08 2021, 1 spec.

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

Gvazdikai, 05 07 2021, 2 spec.; Perloja, 11 07 2021, 1 spec.; Pirčiuių Miškas f., 07 07 2021, 6 spec.

Discussion

Four species of Lepidoptera registered in Lithuania for the first time are presented in this report.

Calybites quadrisignella (Gracillariidae) (Fig. 1) is distributed in Europe from Poland and Germany to Italy, Hungary and Romania, also, Russia, absent in Nordic countries (Karsholt & Nieuwerkerken, 2013). The species is very rare, in Baltic countries found in Latvia in 2020 (Aarvik *et al.*, 2020). Host plant is *Rhamnus cathartica* and other Rhamnaceae (Fig. 2).

Nothris verbascella (Gelechiidae) is distributed in all Nordic countries, Estonia and Latvia (Fig. 3). The larva feeds on *Verbascum* sp. Lithuanian specimen belongs to the second generation.

Thyris fenestrella (Thyrididae) (Fig. 4) is wide distributed in Europe and Asia Minor, but absent in Nordic countries. Species is found in surrounding countries: Poland, Latvia and Estonia (Aarvik *et al.*, 2017; Buszko, 2020). The larvae feeds on *Clematis*,

Pulsatilla. Regularly found in Estonia on *Pulsatilla* (Savenkov, pers. com.).

Hydraecia nordstroemi (Noctuidae) is known from all Nordic countries, Estonia and Latvia. One of the Latvian populations is located near the Lithuanian border. This species was search out in Lithuania for a number of years and only this year we add this species to Lithuanian fauna (Fig. 5). Larvae feeds on *Alium sp.*

New data about 165 rare and spreading Lepidoptera species from 30 families are presented.

Alien species *Cydalima perspectalis* (Crambidae) was first found in Lithuania in 2018 (Paulavičiūtė, Mikalauskas, 2018), this year it caused significant damage to greenery in some settlements. *Parectopa robiniella*, *Caloptilia fidella* (Gracillariidae) are distributed in most European countries (Karsholt *et al.*, 2013). Latterly detected in Lithuania these species are widely distributed and common now, new locations are found every year.

Scirpophaga praelata (Crambidae) found in Lithuania after more than 40 years. *Oegoconia deauratella* (Autostichidae) in localities with suitable habitat is not rare in Lithuania.

We found several new localities of protected and rare Lepidoptera species: *Melitaea diamina*, *Lopinga achine*, *Papilio machaon*, *Lycaena dispar* (Rašomavičius, 2021).

The earlier known as migrant species: *Plogophora meticulosa*, *Mythimna albipuncta*, *M. l-album*, *Nephoptyx angustella* are found during the warm season, it seems that they are resident species now.

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References

- Aarvik L., Bengtsson B. A., Elven H., Ivinskis P., Jurivete U., Karsholt O., Mutanen M., Savenkov N. 2017. Nordic-Baltic checklist of Lepidoptera. *Norwegian Journal of entomology*, Supplement 3: 1–236.
- Aarvik L., Bengtsson B. A., Elven H., Ivinskis P., Jurivete U., Karsholt O., Mutanen M., Savenkov N. 2021. Additions and corrections to the Nordic-Baltic Checklist of Lepidoptera. *Norwegian Journal of Entomology* 68: 1–14.
- Bengtsson B. A., Johansson R., Palmqvist G. 2008. Nationalnyckeln till Sveriges flora och fauna. Fjärilar: Käkmalar-Säckspinnare (Lepidoptera: Micropterigidae–Psychidae). ArtDatabanken, SLU, Upsala.
- Bengtsson B. A. & Johansson R. 2011. Nationalnyckeln till Sveriges flora och fauna. Fjärilar: Bronsmalar-rullvingemalar. (Lepidoptera: Roeslerstammiidae–Lyoniidae). ArtDatabanken, SLU, Upsala.
- Buszko J. 2020. Crambidae i Thyridae Polski. *Novy Sącz*.
- Emmet M (ed.) 1996. The moths and butterflies of Great Britain and Ireland, Vol.3, Essex.
- Ivinskis P. 2004. Lepidoptera of Lithuania. Annotated catalogue. Vilnius.

- Ivinskis P., Rimšaitė J. 2018. Check-list of the Lithuanian Lepidoptera. Vilnius.
- Karsholt O., Nieuwerkerken E. J. van & de Jong Y. S. D. M. 2013. Lepidoptera, Moths. Fauna Europaea version 2.6, <http://www.faunaeur.org> (Accessed October 23, 2021).
- Leraut P. 2014. Moths of Europe. Vol 4, Pyralids 2, Verrieres le Buisson.
- Paulavičiūtė B., Mikalauskas D. 2018. First record of the box tree moth *Cydalima perspectalis* (Walker, 1859) (Lepidoptera, Crambidae) in Lithuania. *Bulletin of the Lithuanian Entomological society* 2 (30): 55–59.
- Rašomavičius, V. (ed.). 2021: Red Data Book of Lithuania. Animals, plants, fungi. Vilnius.
- Razowski J. 2001. Die Tortriciden (Lepidoptera, Tortricidae) Mitteleuropas. Bratislava.
- Slamka F. 2010. Pyraloidea (Lepidoptera) of Central Europe. Bratislava.
- Svensson I. 2006. Nordens vecklare M. The Nordic Tortricidae. Lund.
- Zilli A., Ronkay L. & Fibiger M 2006. Noctuidae Europaeae. Volume 8: Apameini. Entomological Press, Soró

Duomenys apie naujas ir retas Lietuvos faunos drugių rūšis

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Santrauka

Straipnyje pateikiami duomenys apie 4 naujas ir 165 retas Lietuvos faunos drugių rūšis. Šunvyšninės keršosios kandelės (*Calybites quadrisignella*) veiklos požymiai rasti keliose Lietuvos vietose, Būtingėje sugautas ir suaugęs individas. Tūbinė pjautasparnė kandis (*Nothris verbascella*) plačiai paplitusi kaimyninėse šalyse, tad jos radimas buvo tikėtinas ir lauktas, kaip ir languočio (*Thyris fenestrella*), žinomo iš greta esančių Latvijos ir Lenkijos. Česnakinis pelėdgalvis (*Hydraecia nordstroemi*) buvo tikslingai ieškomas daugelį metų, tačiau tik šiais metais pavyko surasti vieną individą. Svetimžemės rūšys robininė parektopa *Parectopa robinella*, buksmedinio ugniuko (*Cydalima perspectalis*) akivaizdžiai plintančios Lietuvoje, kaip ir pernai pirmą kartą rasta *Caloptilia fidella*. Papildyti duomenys apie paplitimą Lietuvoje daugeliui kitų drugių rūšių. Aptiktas *Scirpophaga praelata*, kurio keli individai Vilniaus apylinkėse buvo rasti tik prieš 40 metų. Dalis retų rūšių buvo priskiriamos migrantams: pelėdgalviai *Plagophora meticulosa*, *Mythimna albipuncta*, *M. l-album*, bet tyrimo duomenys rodo, kad jos pastoviai gyvena šalyje, nes sutinkamos viso sezono metu. Įdomūs sfinksų *Laothoe amurensis*, *Deilephila elpenor*, puošniosios vaivos (*Apatura ilia*), *Plutella porectella* radimas vasaros antroje pusėje. Spėjama, kad tai antros kartos drugiai, nes yra žinoma, kad kai kuriose šalyse esant labai šiltoms vasaroms gali išsivystyti ir antra šių drugių karta.

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