

RARE LEPIDOPTERA SPECIES RECORDED IN WESTERN AND NORTHWESTERN LITHUANIA IN 2019–2020

MANTAS KAUPYS

Kretingos 19-37, LT-92216 Klaipėda, Lithuania. E-mail: mantaskaupys@gmail.com

Introduction

This article provides data on 103 rare Lepidoptera species found in 8 administrative districts and municipalities of Lithuania in 2019-2020. Four species (*Mesoligia literosa*, *Lopinga achine*, *Parnassius mnemosyne* and *Brenthis daphne*) are included into the list of protected species of Lithuania. The research found a trend in the spread of moth species that were recently found. There is an important alien species among them – *Cydalima perspectalis*.

This article publishes a number of individuals found, including the date, location and coordinates given for each species.

Material and Methods

The main data was collected during 83 field trips in 2020. This research was focused on the observation of Heterocera. Research was carried out in different areas and habitats of north-western and western parts of Lithuania. During this research over 8000 specimens of Lepidoptera have been identified. Observations were carried out in 43 locations in the districts of Šilutė, Klaipėda, Kretinga, Skuodas, Mažeikiai, Plungė and municipalities of Palanga and Neringa. A wide range of entomological methods were used for collecting the specimens: various types of sugar baits, netting and light-trapping with the help of 500 W blended mercury lamp bulb. Part of data in the research area of Ylakiai was collected using automatic light trap with 160 W mercury vapor lamp bulb.

The material was identified using various identification guides (Sterling and Parsons, 2012; Skou, 1986; Kazlauskas 1984, 2008). Evidence of the collected specimens and photos are preserved in the private collection of the author.

List of localities

Locality	Administrative district	Coordinates (LAT, LONG)
Būtingė	Palanga mun.	56.05929, 21.06986
Daubašiai	Kretinga district	56.00341, 21.31937
Daujotai, Luoba river valley	Skuodas district	56.25623, 21.64097
Gerduvėnai	Klaipėda district	55.73552, 21.43178
Grobštas Nature Reserve	Neringa mun.	55.29494, 20.96995
Grūšlaukės Miškas f.	Kretinga district	56.05290, 21.42759
Ylakiai	Skuodas district	56.27781, 21.84756
Jautakiai, Venta river valley	Mažeikiai district	56.31916, 22.26319
Kairiai (1)	Klaipėda district	55.62450, 21.17170

Kairiai (2)	Klaipėda district	55.62668, 21.17148
Kalnėnai, botanical park	Skuodas district	56.12911, 21.63935
Kiškėnai, forest	Klaipėda district	55.69836, 21.26140
Kintų Miškas f.	Šilutės district	55.46059, 21.26386
Klaipėda	Klaipėda mun.	55.72610, 21.13041
Klišiai	Klaipėda district	55.54268, 21.24106
Kulaliai, open pit	Skuodas district	56.12911, 21.63935
Kurmaičiai, Venta river valley	Mažeikiai district	56.32443, 22.26219
Lapieniškių Miškas f.	Klaipėda district	55.82213, 21.28721
Margininkai	Skuodas district	56.15115, 21.23757
Nagliai Nature Reserve	Neringa mun.	55.45213, 21.07930
Šventosios Miškas f. (2)	Kretinga district	56.02110, 21.14594
Palanga	Palanga mun.	55.90674, 21.05513
Perkūnai (1)	Klaipėda district	55.75625, 21.50549
Perkūnai (2)	Klaipėda district	55.74368, 21.50681
Perkūnai (3)	Klaipėda district	55.75745, 21.50259
Renavo Miškas f.	Mažeikiai district	56.21891, 22.11386
Sedos Giria	Mažeikiai district	56.21722, 22.13739
Smiltynė	Klaipėda mun.	55.67860, 21.10430
Šateikių giria (1)	Plungės district	56.02795, 21.68000
Šateikių giria (2)	Plungės district	56.01667, 21.67216
Šilpelkės Miškas f.	Kretinga district	55.95131, 21.53949
Šlaveitai	Kretinga district	56.02605, 21.32775
Tilvikai	Klaipėda district	55.76839, 21.56522
Tyrų Pelkė (1)	Klaipėda district	55.57039, 21.22119
Tyrų Pelkė (2)	Klaipėda district	55.56066, 21.22882
Viršilai, Gėsalai geomorphological reserve (1)	Skuodas district	56.32883, 21.77544
Viršilai, Gėsalai geomorphological reserve (2)	Skuodas district	56.32955, 21.77069
Vėžaitinės Miškas f. (1).	Klaipėda district	55.75726, 21.57176
Vėžaitinės Miškas f. (2)	Klaipėda district	55.74625, 21.53348
Vėžaitinės Miškas f. (3)	Klaipėda district	55.74654, 21.57634

List of species

NOLIDAE

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

Renavo Miškas f. (1), 26 06 2020, 1 spec.

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

Smiltynė, 10 06 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 1 spec.

DREPANIDAE

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

Šateikių giria (1), 25 06 2019, >5 spec.; Vėžaitinės Miškas f. (1), 11 06 2019, 1 spec.

NOCTUIDAE

***Amphipyra berbera* (Rungs, 1949)**

Klišiai, 23 07 2020, 1 spec.

***Amphipyra livida* (Denis & Schiffermüller, 1775)**

Šateikių giria (1), 18 08 2020, 2 spec.; Tyrų pelkė (2), 17 08 2020, 3 spec.

***Antitype chi* (Linnaeus, 1758)**

Viršilai, Gėsalai geomorphological reserve (1), 21 08 2020, 2 spec.

***Apamea anceps* (Denis & Schiffermüller, 1775)**

Nagliai Nature Reserve, 19 06 2020, 1 spec.; Šlaveitai, 13 06 2020, 2 spec.

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

Grūšlaukės Miškas f., 01 07 2020, 3 spec.; Kairiai (2), 24 06 2020, 2 spec.; Lapieniškių Miškas f., 23 06 2020, 2 spec.; Perkūnai (2), 07 07 2020, 2 spec.; Šateikių giria (1), 25 06 2020, 1 spec.; Vėžaitinės Miškas f. (2), 02 07 2020, 1 spec.

***Apamea lithoxylaea* (Denis & Schiffermüller, 1775)**

Kairiai (2), 24 06 2020, 6 spec.

***Aporophyla lueneburgensis* (Freyer, 1848)**

Smiltynė, 16 09 2020, 1 spec.

***Apterogenum ypsillon* (Denis & Schiffermüller, 1775)**

Kulaliai, open pit, 18 07 2020, 1 spec.

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

Kintų Miškas f., 13 07 2020, >10 spec.; 26 07 2020, >10 spec.; Šateikių giria (2), 20 07 2020, 1 spec.; Šventosios Miškas f., 12 07 2020, 1 spec.

***Caradrina selini* (Boisduval, 1840)**

Smiltynė, 10 06 2020, 1 spec.

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

Tyrų pelkė (2), 04 07 2020, 3 spec.

***Coenophila subrosea* (Stephens, 1829)**

Tyrų pelkė (2), 17 08 2020, >10 spec.

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

Būtingė, 07 08 2020, 1 spec.; Smiltynė, 08 08 2020, 2 spec.

***Crypsedra gemmea* (Treitschke, 1825)**

Kintų Miškas f., 26 07 2020, 1 spec.; Tyrų pelkė (2), 17 08 2020, 1 spec.

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

Kulaliai, open pit, 18 07 2020, 1 spec.; Šateikių giria (2), 20 07 2020, 1 spec.

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

Ylakiai, 19 07 2020, 1 spec.

***Cucullia artemisiae* (Hufnagel, 1766)**

Šventosios Miškas f. (1), 12 07 2020, 1 spec.

***Cucullia fraudatrix* (Eversmann, 1837)**

Ylakiai, 31 07 2020, 1 spec.

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

Kintų Miškas f., 13 07 2020, 2 spec.; 26 07 2020, 1 spec.; Kulaliai, open pit, 18 07 2020, >5 spec.; Nagliai Nature Reserve, 19 06 2020, 1 spec.; Renavo Miškas f., 26 06 2020, 1 spec.; Šateikių giria (2), 20 07 2020, 1 spec.; Šlaveitai, 12 06 2020, >5 spec.; 09 08 2020, 1 spec.; Tilvikai, 16 07 2020, 1 spec.; Tyrų pelkė (1), 02 08 2020, 1 spec.

***Euxoa cursoria* (Hufnagel, 1766)**

Nagliai Nature Reserve, 14 08 2020, 1 spec.

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

Kiškėnai, forest, 25 05 2020, 1 spec.

***Hyppa rectilinea* (Esper, 1788)**

Margininkai, 07 06 2020, 1 spec.; Renavo Miškas f., 26 06 2020, 1 spec.; Tilvikai, 14

06 2020, 2 spec.

***Helicoverpa armigera* (Hübner, 1808)**

Smiltynė, 05 10 2020, 1 spec.

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

Ylakiai, 19 08 2020, 3 spec.; Kurmaičiai, Venta river valley, 20 08 2020, 1 spec.; Nagliai Nature Reserve, 14 08 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 1 spec.; Šilpelkės Miškas f., 12 09 2020, 1 spec.; Viršilai, Gėsalai geomorphological reserve (1), 21 08 2020, 1 spec.

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

Kintų Miškas f., 13 07 2020, 1 spec.; Renavo Miškas f., 26 06 2020, 2 spec.; Šateikių giria (1), 25 06 2020, 2 spec.; Tilvikai, 16 07 2020, 1 spec.; Tyrų Pelkė (2), 04 07 2020, 1 spec.; Vėžaitinės Miškas f. (2), 09 06 2020, 1 spec.

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

Kalnėnai, botanical park, 19 08 2020, 3 spec.; Kintų miškas f., 26 09 2020, 1 spec.; Klaipėda, 16 08 2020, 1 spec.; Kurmaičiai, Venta river valley, 20 08 2020, 1 spec.; Nagliai Nature Reserve, 14 08 2020, 2 spec.; Šateikių giria (1), 18 08 2020, 1 spec.; Šlaveitai, 09 08 2020, 1 spec.; Šventosios Miškas f. (1), 15 08 2020, 4 spec.; Viršilai, Gėsalai geomorphological reserve (1), 21 08 2020, 1 spec.

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

Gerduvėnai, 16 06 2020, 1 spec.; Smiltynė, 16 09 2020, 3 spec.; 05 10 2020, 1 spec.

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

Kairiai (2), 24 06 2020, 1 spec.; Margininkai, 17 07 2020, 1 spec.; Tilvikai, 16 07 2020, 1 spec.; Vėžaitinės Miškas f. (2), 02 07 2020, 1 spec.

***Mythimna straminea* (Treitschke, 1825)**

Kintų Miškas f., 13 07 2020, 1 spec.; 26 07 2020, 1 spec.; Kulaliai, open pit, 18 07 2020, 1 spec.; Margininkai, 17 07 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 1 spec.

***Mesogona oxalina* (Hübner, 1803)**

Smiltynė, 16 09 2020, 1 spec.

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

Nagliai Nature Reserve, 15 07 2020, 1 spec.; Smiltynė, 08 08 2020, 2 spec.

***Mniotype adusta* (Esper, 1790)**

Smiltynė, 10 06 2020, 1 spec.

***Naenia typica* (Linnaeus, 1758)**

Grūšlaukės Miškas f., 01 07 2020, 1 spec.; Kairiai (2), 24 06 2020, 1 spec.

***Noctua comes* (Hübner, 1813)**

Būtingė, 13 08 2020, 3 spec.

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

Būtingė, 07 08 2020, >10 spec.; 13 08 2020, 2 spec.; Gerduvėnai, 06 08 2020, 2 spec.; Kairiai (1), 11 08 2020, 1 spec.; Kalnėnai, botanical park, 19 08 2020, 1 spec.; Kintų Miškas f., 26 07 2020, 7 spec.; Nagliai Nature Reserve, 14 08 2020, 1 spec.; Smiltynė, 08 08 2020, 2 spec.; Šlaveitai, 09 08 2020, 1 spec.; Tyrų Pelkė (1), 02 08 2020, 1 spec.

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

Ylakiai, 19 08 2020, 2 spec.; 20 08 2020, 1 spec.; Nagliai Nature Reserve, 19 06 2020, 1 spec.; 11 09 2020, 1 spec.; Smiltynė, 10 06 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 1 spec.; Šventosios Miškas f. (1), 15 08 2020, 1 spec.; Tyrų Pelkė (2), 17 08 2020, 2 spec.; Vėžaitinės Miškas f. (3), 10 08 2020, 1 spec.

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

Būtingė, 07 08 2020, >10 spec.; Ylakiai, 01 08 2020, 1 spec.; Kalnėnai, botanical park, 19 08 2020, 1 spec.; Kintų Miškas f., 13 07 2020, 1 spec.; 26 07 2020, >20 spec.; Klišiai, 23 07 2020, 1 spec.; Lapieniškių Miškas f., 05 08 2020, 3 spec.; Nagliai Nature Reserve, 14 08 2020, 2 spec.; Smiltynė, 08 08 2020, >5 spec.; Šateikių giria (1), 18 08 2020, 3 spec.; Šlaveitai, 09 08 2020, 2 spec.; Šventosios Miškas f. (2), 06 07 2020, 1 spec.; Tyrų pelkė (1), 02 08 2020, >5 spec.; Tyrų pelkė (2), 17 08 2020, >10 spec.

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

Būtingė, 07 08 2020, 2 spec.; Gerduvėnai, 06 08 2020, 1 spec.; Kintų Miškas f., 13 07 2020, 1 spec.; Smiltynė, 10 06 2020, 1 spec.

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

Gedrimai, open pit., 10 05 2020, 1 spec.; Vėžaitinės Miškas f. (2), 20 04 2020, 1 spec.

***Orthosia opima* (Hübner, 1809)**

Vėžaitinės Miškas f. (1), 24 04 2020, 1 spec.

***Phlogophora meticulosa* (Linnaeus, 1758)**

Ylakiai, 19 09 2020, 1 spec.; Kairiai (2), 24 06 2020, 2 spec.; Kintų Miškas f., 26 09 2020, 3 spec.; Nagliai Nature Reserve, 19 06 2020, 1 spec.; 11 09 2020, 1 spec.; Smiltynė, 28 08 2020, 1 spec.; 16 09 2020, 3 spec.; 05 10 2020, >5 spec.; Šateikių giria (1), 18 08 2020, 1 spec.; Šilpelkės Miškas f., 12 09 2020, 1 spec.; Tilvikai, 14 06 2020, 1 spec.

***Polychrysis moneta* (Fabricius, 1787)**

Ylakiai, 01 08 2020, 1 spec.

***Rhyacia simulans* (Hufnagel, 1766)**

Lapieniškių Miškas f., 05 08 2020, 1 spec.

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

Šilpelkės Miškas f., 12 09 2020, 1 spec.

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

Šventosios Miškas f. (1), 17 06 2020, 1 spec.

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

Šateikių giria (1), 18 08 2020, 1 spec.

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

Kurmaičiai, Venta river valley, 20 08 2020, 1 spec.

***Xylena vetusta* (Hübner, 1813)**

Šateikių giria (1), 02 10 2020, 1 spec.

GEOMETRIDAE

***Agriopsis leucophaearia* (Denis & Schiffermüller, 1775)**

Šilpelkės Miškas f., 06 04 2020, 4 spec.

***Campaea margaritata* (Linnaeus, 1767)**

Ylakiai, 19 08 2020, 1 spec.; 20 08 2020, 1 spec.; 21 08 2020, 2 spec.; Kalnėnai, botanical park, 19 08 2020, 2 spec.; Nagliai Nature Reserve, 19 06 2020, 4 spec.; 11 09 2020, 1 spec.; Palanga, 11 09 2020, 2 spec.; Renavo Miškas f., 26 06 2020, 1 spec.; Šateikių giria (1), 25 06 2020, >5 spec.; Šateikių giria (2), 20 07 2020, 1 spec.; Šilpelkės Miškas f., 12 09 2020, 3 spec.

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

Kairiai (2), 16 08 2020, 1 spec.

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

Kintų Miškas f., 26 07 2020, 1 spec.; Klišiai, 23 07 2020, 1 spec.; Kulaliai, open pit, 18 07 2020, 4 spec.; Sedos giria, 19 07 2020, 2 spec.; Šateikių giria (2), 20 07 2020,

>5 spec.

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

Ylakiai, 09 05 2020, 1 spec.; 10 05 2020, 2 spec.

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

Šventosios Miškas f. (1), 12 07 2020, 2 spec.

***Gagitodes sagittata* (Fabricius, 1787)**

Vėžaitinės Miškas f. (2), 09 06 2020, 1 spec.

***Idaea fuscovenosa* (Goeze, 1781)**

Kintų Miškas f., 13 07 2020, 1 spec.; Nagliai Nature Reserve, 15 07 2020, >5 spec.; Smiltynė, 08 08 2020, 1 spec.

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

Kairiai (2), 24 06 2020, 1 spec.; Šventosios Miškas f. (1), 12 07 2020, 3 spec.

***Idaea ochrata* (Scopoli, 1763)**

Kairiai (2), 24 06 2020, 1 spec.

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

Klaipėda, 22 06 2020, 1 spec.

***Lythria cruentaria* (Hufnagel, 1767)**

Grobštas Nature Reserve, 04 07 2020, 4 spec.

***Martania taeniata* (Stephens, 1831)**

Perkūnai (2), 07 07 2020, 1 spec.; Sedos giria, 19 07 2020, 2 spec.; Šateikių giria (1), 25 06 2020, 4 spec.; Šateikių giria (2), 20 07 2020, 1 spec.

***Mesotype didymata* (Linnaeus, 1758)**

Kulaliai, open pit, 18 07 2020, 1 spec.; Margininkai, 17 07 2020, 1 spec.; Perkūnai (2), 07 07 2020, 2 spec.; Šateikių giria (2), 20 07 2020, 1 spec.; Šventosios Miškas f. (1), 12 07 2020, 1 spec.

***Mesotype parallelolineata* (Retzius, 1783)**

Ylakiai, 21 08 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 1 spec.

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

Kintų Miškas f., 13 07 2020, 1 spec.; Margininkai, 17 07 2020, 1 spec.; Šateikių giria (2), 20 07 2020, 1 spec.

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

Smiltynė, 08 08 2020, 2 spec.

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

Smiltynė, 16 09 2020, >5 spec.; Šilpelkės Miškas f., 12 09 2020, 1 spec.

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

Kintų Miškas f., 13 07 2020, 1 spec.; 26 07 2020, 2 spec.; Klišiai, 23 07 2020, 1 spec.; Kulaliai, open pit, 18 07 2020, >5 spec.; Sedos giria, 19 07 2020, 3 spec.; Šateikių giria (2), 20 07 2020, >5 spec.; Šventosios Miškas f. (1), 04 08 2020, 1 spec.; Vėžaitinės Miškas f. (3), 10 08 2020, 1 spec.

***Perizoma affinitata* (Stephens, 1831)**

Lapieniškių Miškas f., 26 05 2020, 3 spec.; Vėžaitinės Miškas f. (2), 09 06 2020, 1 spec.

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

Nagliai Nature Reserve, 15 07 2020, 4 spec.; 14 08 2020, 1 spec.

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

Kairiai, 11 08 2020, 1 spec.; Kulaliai, open pit, 18 07 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 1 spec.

TORTRICIDAE

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

Kurmaičiai, Venta river valley, 20 08 2020, 1 spec.

***Acleris umbrana* (Hübner, 1799)**

Tilvikai, 14 06 2020, 1 spec.

***Eucosma campoliliana* (Denis & Schiffermüller, 1775)**

Grūšlaukės Miškas f., 01 07 2020, 2 spec.

***Pelochrista infidana* (Hübner, 1824)**

Smiltynė, 28 08 2020, 2 spec.

SPHINGIDAE

***Hemaris tityus* (Linnaeus, 1758)**

Daujotai, Luoba river valley, 31 05 2020, 1 spec.

***Hyles galii* (Rottemburg, 1775)**

Nagliai Nature Reserve, 14 08 2020, 2 spec.; Tilvikai, 16 07 2020, 1 spec.; Vėžaitinės Miškas f. (3), 10 08 2020, 1 spec.

NYMPHALIDAE

***Brenthis daphne* (Bergsträsser, 1780)**

Grobštas Nature Reserve, 04 07 2020, 1 spec.

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

Grobštas Nature Reserve, 04 07 2020, >5 spec.;

***Nymphalis polychloros* (Linnaeus, 1758)**

Ylakiai, 10 04 2020, 2 spec.; Lapieniškių Miškas f., 20 05 2020, 2 spec.; Šateikių giria (1), 29 05 2020, 1 spec.

CRAMBIDAE

***Anania funebris* (Ström, 1768)**

Lapieniškių Miškas f., 20 05 2020, 1 spec.

***Catoptria fulgidella* (Hubner, 1813)**

Nagliai Nature Reserve, 14 08 2020, >5 spec.; Smiltynė, 28 08 2020, 1 spec.

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

Palanga, 11 09 2020, 1 spec.; Smiltynė, 16 09 2020, 1 spec.

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

Kintų Miškas f., 26 09 2020, 1 spec.

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

Kairiai (2), 24 06 2020, 1 spec.; Nagliai Nature Reserve, 11 09 2020, 1 spec.

PYRALIDAE

***Synaphe punctalis* (Fabricius, 1775)**

Grobštas Nature Reserve, 14 07 2020, >10 spec.; Nagliai Nature Reserve, 15 07 2020, 2 spec.

LYCAENIDAE

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

Vėžaitinės Miškas f. (3), 10 08 2020, 1 spec.

EREBIDAE

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

Kintų Miškas f., 26 07 2020, 2 spec.; Klišiai, 23 07 2020, 2 spec.; Šateikių giria (1), 18 08 2020, 2 spec.; Šlaveitai, 09 08 2020, 1 spec.

***Catocala sponsa* (Linnaeus, 1767)**

Kintų Miškas f., 26 09 2020, 1 spec.; Šateikių giria (1), 18 08 2020, 3 spec.

***Coscinia cribraria* (Linnaeus, 1758)**

Gerduvėnai, 06 08 2020, 1 spec.; Kairiai (1), 11 08 2020, 1 spec.; Smiltynė, 08 08 2020, >5 spec.

***Diaphora mendica* (Clerck, 1759)**

Vėžaitinės Miškas f. (1), 11 06 2020, 1 spec.

COSSIDAE

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

Šateikių giria (2), 20 07 2020, 1 spec.

TINEIDAE

***Scardia boletella* (Fabricius, 1794)**

Lapieniškių Miškas f., 05 08 2020, 1 spec.

NOTODONTIDAE

***Harpya milhauseri* (Fabricius, 1775)**

Lapieniškių Miškas f., 13 06 2020, 1 spec.; Viršilai, Gėsalai geomorphological reserve (1), 31 05 2020, 1 spec.

DEPRESSARIIDAE

***Hypercallia citrinalis* (Scopoli, 1763)**

Šateikių giria (1), 25 06 2020, 1 spec.

GRACILLARIIDAE

***Caloptilia stigmatella* (Fabricius, 1781)**

Kiškėnai, miškas f., 25 05 2020, 1 spec.

GELECHIIDAE

***Helcystogramma lineolella* (Zeller, 1839)**

Kairiai (1), 21 05 2019, 1 spec.

PAPILIONIDAE

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

Daubašiai, 13 05 2020, >5 spec.; Daujotai, Luoba river valley, 31 05 2020, >20 spec.; Jautakiai, Venta river valley, 30 05 2020, >10 spec.; Šateikių giria (1), 29 05 2020, 1 spec.

PSYCHIDAE

***Sterrhopterix fusca* (Haworth, 1809)**

Viršilai, Gėsalai geomorphological reserve (2), 28 06 2020, 1 spec.

LASIOCAMPIDAE

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

Ylakiai, 07 04 2020, 1 spec.

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

Vėžaitinės Miškas f. (2), 02 07 2020, 1 spec.

Discussion

According to the data of Lithuanian hydrometeorological service, the winter of 2019 is considered as record warm. The average air temperature in winter months reached 2,6 °C. This may have had positive effect of some species during overwintering period. For example, unusually common *Noctua interjecta* was observed. Abundant fresh-looking individuals of this species were noticed from mid-July to mid-August in summer of 2020, what indicates that the species has developed in the territory of Lithuania. *N. interjecta*

was most abundant in the coastal zone (in open habitats of dunes), where more than 10 individuals flew to the light trap in one evening. Further to the east of the country, only solitary moths were observed. Until now in Lithuania this species is known only from a few individuals. Last published data are known from Klaipėda district (Kaupys, 2019) and Palanga municipality (Ūsaitis *et al.*, 2019).



Fig. 1. *Cydalima perspectalis*



Fig. 2. *Peribatodes rhomboidaria*



Fig. 3. *Peribatodes rhomboidaria*



Fig. 4. *Ideaea fuscovenosa*



Fig. 5. *Charissa obscurata*

Cydalima perspectalis is considered as alien species and the pest of box trees (*Buxus*), for the first time in Lithuania found in Vilnius district (Paulavičiūtė, Mikalauskas, 2018). This species is native to Japan, China, Taiwan, Korea, far-east Russia and India (Agius, 2018). *C. perspectalis* gradually spread and reached western and north-western

Lithuania - two individuals were observed in September of 2020. The first moth was found in Palanga Botanical Park. The species there could have been introduced with seedlings of food plants. A second fresh-looking individual was attracted to light in Smiltynė (Klaipėda mun.) (Fig. 1).

First published data of *Peribatodes rhomboidaria* from Lithuania were from Senoji Varėna in 2017 (Švitra *et al.*, 2017), since then, one individual was found in Kaunas (Švitra *et al.*, 2018). According to the literature, the species is not selective for habitats and lives in gardens, urban parks, hedgerows, scrubs and woodlands where larva feed on various plants (Sterling, Henwood, 2020). During these studies one individual was caught in Šilpėlkės Miškas f. (Kretinga district) (Fig. 2) and Smiltynė (Klaipėda mun.) (Fig. 3) where it was quite abundant (>5 specimens in one night).

Idaea fuscovenosa – formerly in the country was known only from coastal areas. In 2020 one individual was caught in Kintai Miškas f. in the territory of the botanical reserve (Fig. 4). Supposedly the species is more common in the territory of Lithuania but has not been found so far.

Charissa obscurata – very rare species in Lithuania, last officially published data is known from Nagliai nature reserve (Ivinskis *et al.*, 2019). During this study one individual was caught in mid-August in Kairiai (Klaipėda district) (Fig. 5). *C. obscurata* colonizes rupicolous calcareous grassland, rocky slopes and quarries where larva feed on herbs like *Saxifraga*, *Hippocrepis*, *Sanguisorba*, *Teucrium* and others (Wagner, 2020). According to various authors, *C. obscurata* is in decline due to the decrease of nutrient-poor habitats by intensified succession (Wagner, 2020).

Mesoligia literosa – another vulnerable species which is found only in the coastal zone and is listed in the list of protected organisms. *M. literosa* inhabits dry slopes, steppe-like grasslands and locally also coastal dunes and similar places (Wagner, 2020). One individual was observed in a typical habitat in Nagliai nature reserve (Neringa mun.) and Smiltynė (Klaipėda mun.). *M. literosa* is severely threatened by habitat loss in many regions. On the coasts, it suffers mainly from tourist activities (beaches, overbuilding), on dry slopes more from agricultural and forestry activities (viticulture, afforestations and succession) (Wagner, 2020). It was noticed that similar problems exists in Lithuania - coastal zone is intensively affected by anthropogenic human activities and succession. The remaining suitable habitat areas are intensively overgrown with invasive species of plants especially by *Rosa rugosa*, *Robinia pseudoacacia* and *Gypsophila paniculata*.

Acknowledgements

Special thanks to Modestas Bružas for help and assistance in field trips for studying Lepidoptera of Curonian spit (Kuršių nerija national park).

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Retos Lietuvos faunos drugių rūšys užfiksuotos vakarų ir šiaurės vakarų Lietuvoje 2019–2020 metais

M. KAUPYS

Santrauka

Straipsnyje pateikti duomenys apie 103 retas Lietuvos faunos drugių rūšis. Tyrimai atlikti Šilutės, Klaipėdos, Kretingos, Skuodo, Mažeikių, Plungės rajonuose bei Palangos ir Neringos miestų savivaldybėse. Keturios rūšys (*Mesoligia literosa*, *Lopinga achine*, *Parnassius mnemosyne*, *Brenthis daphne*) įtrauktos į Lietuvos saugomų rūšių sąrašą.

Tyrimų metu pastebėta kai kurių neseniai Lietuvoje aptiktų rūšių plitimo tendencija, tarp kurių viena svetimžemė – *Cydalima perspectalis*.

Received: 20 October, 2020