

ONE NEW AND 88 RARE FOR THE LITHUANIAN FAUNA LEPIDOPTERA SPECIES, RECORDED IN 2018–2019

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Introduction

This paper provides data on one new and 88 rare Lepidoptera species found in 5 administrative districts and municipalities of Lithuania in 2018–2019. Two species (*Lycaena dispar* and *Phibalabteryx virgata*) are included into the Red Data Book of Lithuania. Some species have been repeatedly found after a break of several decades in Lithuania. The *Drymonia obliterata* was recorded in Lithuania for the first time.

Material and Methods

The main data was collected during field trips in 2019. This study was focused on the observation of nocturnal moths - in total 75 nights were spent for that. Studies were carried out in various areas of North-western Lithuania. Over 7000 specimens of Lepidoptera have been identified during this study. Observations were carried out in 37 locations in the districts of Klaipėda, Kretinga, Skuodas, Mažeikiai and municipalities of Palanga and Neringa. Various entomological methods were used for collecting the specimens: some types of sugar baits, netting and light-trapping with the 500 W blended mercury lamp bulb. Part of data in the research area of Ylakiai was collected using automatic light trap with 250 W mercury vapour lamp bulb.

The material was identified using various identification guides (Sterling & Parsons, 2012; Skou, 1986; Hacker *et al.*, 2002). Collected specimens and photos are stored in the private collection of the author. A species new for the Lithuanian fauna is marked with an asterisk *.

List of localities

Locality	Administrative district	Coordinates (LAT, LONG)
Antroji Melnragė, dunes	Klaipėda district	55.75702, 21.08331
Aukštkalvių Miškas f.	Kretinga district	55.93288, 21.38807
Būtingė	Palanga mun.	56.05929, 21.06986
Falsbergo Miškas f.	Mažeikiai district	56.33954, 22.29946
Gedrimai, open pit	Skuodas district	56.29900, 21.88885
Gerduvėnai	Klaipėda district	55.73552, 21.43178
Ylakiai	Skuodas district	56.27781, 21.84756
Jokūbavas	Kretinga district	55.83031, 21.33560
Kairiai (1)	Klaipėda district	55.62450, 21.17170
Kairiai (2)	Klaipėda district	55.62668, 21.17148
Karvaičiai	Neringa mun.	55.52232, 21.11640
Klaipėda (1)	Klaipėda mun.	55.72610, 21.13041
Klaipėda (2)	Klaipėda mun.	55.71982, 21.13748

Lapieniškių Miškas f. (1)	Klaipėda district	55.81614, 21.26526
Lapieniškių Miškas f. (2)	Klaipėda district	55.82213, 21.28721
Margininkai	Skuodas district	56.15115, 21.23757
Mažučiai, closed peatbog	Kretinga district	56.02469, 21.23058
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 f.	Mažeikiai district	56.21582, 22.14521
Smiltynė	Klaipėda mun.	55.67860, 21.10430
Šaukliai, juniper forest	Skuodas district	56.12709, 21.59162
Šilpelkės Miškas f.	Kretinga district	55.95294, 21.54498
Šventosios Miškas f. (1)	Kretinga district	56.03147, 21.14186
Šventosios Miškas f. (2)	Kretinga district	56.02924, 21.15246
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
Vėžaitinės Miškas f. (1)	Klaipėda district	55.74938, 21.53803
Vėžaitinės Miškas f. (2)	Klaipėda district	55.75726, 21.57176
Vėžaitinės Miškas f. (3)	Klaipėda district	55.75383, 21.56638
Vėžaitinės Miškas f. (4)	Klaipėda district	55.74625, 21.53348
Vėžaitinės Miškas f. (5)	Klaipėda district	55.75614, 21.56650
Viržintų Miškas f.	Klaipėda district	55.73263, 21.60992
Žvelsenai, Minija river valley	Klaipėda district	55.75846, 21.43391

List of species

NOLIDAE

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

Vėžaitinės Miškas f. (2), 30 06 2018, 1 spec.

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

Lapieniškių Miškas f. (1), 20 06 2019, 1 spec.; Perkūnai (2) 29 06 2019, 1 spec.

DREPANIDAE

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

Lapieniškių Miškas f. (1), 27 04 2019, 3 spec.; Šventosios Miškas f. (1), 25 04 2019, 1 spec.

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

Aukštkalvių Miškas f. 15 06 2019, 1 spec.; Lapieniškių Miškas f. (1), 07 06 2019, 3 spec. 20 06 2019, >10 spec.

NOCTUIDAE

***Actebia praecox* (Linnaeus, 1758)**

Būtingė, 23 08 2019, 4 spec.

***Agrotis ripae* (Hübner, 1823)**

Būtingė, 05 06 2019, 1 spec.

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

Šilpelkės Miškas f., 27 07 2019, 1 spec.; Tilvikai, 29 07 2019, 1 spec. Vėžaitinės Miškas f. (5), 01 08 2019, 1 spec.

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

Antroji Melnragė, 24 08 2019, 1 spec.; Kairiai (2), 06 08 2019, 1 spec.

***Anarta myrtilli* (Linnaeus, 1761)**

Žvelsenai, Minija river valley, 28 07 2019, 1 spec.

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

Smiltynė, 22 08 2019, 1 spec.; Vėžaitinės Miškas f. (3), 21 08 2019, 1 spec.

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

Būtingė, 24 05 2019, 3 spec. 05 06 2019, 1 spec.; Lapieniškių Miškas f. (1), 07 06 2019, 2 spec.; Smiltynė, 11 06 2019, 2 spec.

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

Perkūnai (1), 25 06 2019, 1 spec.; Perkūnai (2), 29 06 2019, 1 spec.; Tyrų Pelkė (2), 19 06 2019, 1 spec.

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

Kairiai (1), 18 06 2019, 2 spec.

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

Tyrų Pelkė (2), 07 07 2019, 1 spec.; Smiltynė, 09 07 2019, 2 spec.

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

Tyrų Pelkė (2), 07 07 2019, 1 spec.

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

Tyrų Pelkė (2), 23 07 2019, 1 spec.

***Callopietria juvenina* (Stoll, 1782)**

Lapieniškių Miškas f. (1), 01 07 2019, 1 spec.; Perkūnai (1), 18 08 2019, 1 spec.; Vėžaitinės Miškas f. (4), 25 07 2019, 2 spec. 07 08 2019, 1 spec.; Vėžaitinės Miškas f. (5), 01 08 2019, 1 spec.; Viržintų Miškas f., 17 07 2019, 1 spec.

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

Ylakiai, 12 08 2019, 1 spec.; Šventosios Miškas f. (1), 03 06 2019, 1 spec.

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

Šventosios Miškas f. (2), 19 08 2019, 1 spec.; Vėžaitinės Miškas f. (4), 29 08 2019, 1 spec.

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

Lapieniškių Miškas f. (2), 31 07 2019, 1 spec.

***Crypsedra gemma* (Treitschke, 1825)**

Antroji Melnragė, 24 08 2019, 2 spec.; Kairiai (2), 06 08 2019, 1 spec.; Margininkai, 16 08 2019, 1 spec.; Perkūnai (1), 18 08 2019, 1 spec.; Šventosios Miškas f. (2), 19 08 2019, >5 spec.; 26 08 2019, 1 spec.; Vėžaitinės Miškas f. (5), 01 08 2019, 1 spec.

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

Vėžaitinės Miškas f. (4), 25 07 2019, 3 spec.

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

Gerduvėnai, 26 07 2019, 1 spec.

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

Gerduvėnai, 31 08 2019, 1 spec.; Vėžaitinės Miškas f. (4), 25 07 2019, 1 spec.; Viržintų Miškas f., 17 07 2019, 1 spec.; Šilpelkės Miškas f., 27 07 2019, 1 spec.; Žvelsenai, Minija river valley, 28 07 2019, 1 spec.

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

Būtingė, 23 08 2019, 4 spec.; Šventosios Miškas f. (2), 19 08 2019, 1 spec.

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

Antroji Melnragė, 26 08 2019, 1 spec.; Gerduvėnai, 26 07 2019, 1 spec.

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

Sedos Giria, 14 06 2019, 1 spec.

***Lacanobia splendens* (Hübner, 1808)**

Karvaičiai, 12 06 2019, 2 spec.

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

Tyrų Pelkė (2), 23 07 2019, 1 spec.

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

Karvaičiai, 12 06 2019, 2 spec.; Mažučiai, closed peatbog, 04 06 2019, 2 spec.;

Perkūnai (1), 25 06 2019, 2 spec.; Sedos Giria f., 14 06 2019 1 spec.

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

Antroji Melnragė, 03 08 2019, 4 spec.; Būtingė, 23 08 2019, 1 spec.; Gedrimai, 11 08 2019, 1 spec.;

Gerduvėnai, 17 08 2019, 1 spec.; Ylakiai, 12 08 2019, 1 spec.;

Margininkai, 16 08 2019, 2 spec.; Perkūnai (1), 18 08 2019, 3 spec. 07 09 2019, 1

spec.; Tyrų Pelkė (1), 05 08 2019, 1 spec.; Vėžaitinės Miškas f. (4), 07 08 2019, 1

spec. 29 08 2019, 1 spec.

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

Būtingė, 24 06 2019, 1 spec.

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

Aukštkalvių Miškas f. 15 06 2019, 2 spec.; Lapieniškių Miškas f. (1), 20 06 2019, 1

spec.; Mažučiai, closed peatbog, 23 06 2019, 1 spec.; Perkūnai (2), 29 06 2019, 1

spec.; Tyrų Pelkė (2), 19 06 2019, 2 spec.

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

Tyrų Pelkė (2), 19 06 2019, >5 spec. 23 07 2019, 2 spec.; Vėžaitinės Miškas f. (3), 15

07 2019, 1 spec.; Vėžaitinės Miškas f. (4), 25 07 2019, 1 spec.

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

Renavo Miškas f., 20 07 2019, 1 spec.; Tyrų Pelkė (2), 07 07 2019, 1 spec.;

Vėžaitinės Miškas f. (3), 15 07 2019, 1 spec.

***Noctua comes* (Hübner, 1813)**

Antroji Melnragė, 24 08 2019, 1 spec.

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

Antroji Melnragė, 03 08 2019, 1 spec.; Perkūnai (1), 18 08 2019, 1 spec.; Vėžaitinės

Miškas f. (4), 07 08 2019, 1 spec.

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

Antroji Melnragė, 24 08 2019, 4 spec. 26 08 2019, 1 spec.; Būtingė, 23 08 2019, 1

spec.; Margininkai, 16 08 2019, 1 spec.; Perkūnai (1), 18 08 2019, 1 spec.

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

Būtingė, 23 08 2019, 1 spec.; Gerduvėnai, 26 07 2019, 1 spec. 17 08 2019, 2 spec.;

Margininkai, 16 08 2019, 2 spec.; Perkūnai (1), 18 08 2019, 6 spec.; Šventosios

Miškas f. (2), 19 08 2019, 1 spec.; Tilvikai, 29 07 2019, 1 spec. 30 08 2019, 1 spec.;

Vėžaitinės Miškas f. (4), 07 08 2019, 2 spec. 29 08 2019, 1 spec.

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

Gerduvėnai, 17 08 2019, 1 spec.; Tilvikai, 29 07 2019, 1 spec.; Vėžaitinės Miškas f.

(5), 01 08 2019, 1 spec.

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

Lapieniškių Miškas f. (1), 17 04 2019, 1 spec. 27 04 2019, >5 spec.

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

Perkūnai (3), 10 06 2019, 1 spec.; Klaipėda (2), 05 10 2019, 1 spec.

***Phragmatiphila nexa* (Hübner, 1808)**

Tyrų Pelkė (2), 27 08 2019, 2 spec.

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

Tilvikai, 30 08 2019, 1 spec.; Vėžaitinės Miškas f. (4), 29 08 2019, 4 spec.

***Tyta luctuosa* (Denis & Schiffermüller, 1775)**

Kairiai (2), 06 08 2019, 1 spec.; Smiltynė, 11 06 2019, 1 spec.

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

Antroji Melnragė, 24 08 2019, 2 spec.; Gerduvėnai, 17 08 2019, 1 spec.;
Margininkai, 16 08 2019, 1 spec.; Perkūnai (1), 18 08 2019, 1 spec.; Vėžaitinės
Miškas f. (4), 29 08 2019, 1 spec.

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

Sedos Giria f., 14 06 2019, 1 spec.

GEOMETRIDAE

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

Klaipėda (1), 24 06 2019, 1 spec.

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

Būtingė, 23 08 2019, >5 spec.; Gerduvėnai, 17 08 2019, 1 spec.; Karvaičiai, 12 06
2019, 2 spec.; Perkūnai (3), 10 06 2019, 1 spec.; Smiltynė, 11 06 2019, 2 spec.;
Šventosios Miškas f. (2), 19 08 2019, 1 spec.; Tyrų Pelkė (1), 06 06 2019, 3 spec.;
Tyrų Pelkė (2), 27 08 2019, 1 spec.; Vėžaitinės Miškas f. (4), 29 08 2019, >5 spec.

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

Gerduvėnai, 26 07 2019, 1 spec.; Perkūnai (2), 29 06 2019, 1 spec.; Renavo Miškas
f., 20 07 2019, 2 spec.; Tilvikai, 29 07 2019, 2 spec.; Tyrų Pelkė (2), 07 07 2019, 1
spec.; Vėžaitinės Miškas f. (4), 25 07 2019, 1 spec.; Žvelsenai, Minija river valley, 28
07 2019, 2 spec.

***Cyclophora linearia* (Hübner, 1799)**

Antroji Melnragė, 24 08 2019, 1 spec.

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

Šventosios Miškas f. (1), 25 04 2019, 1 spec.

***Epirrhoe galiata* (Denis & Schiffermüller, 1775)**

Smiltynė, 11 06 2019, 2 spec. 09 07 2019, 1 spec. 22 08 2019, 1 spec.

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

Perkūnai (2), 29 06 2019, 1 spec.

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

Tyrų Pelkė (2), 19 06 2019, >5 spec.; Būtingė, 09 07 2018, 1 spec.

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

Būtingė, 09 07 2018, 2 spec.

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

Margininkai, 16 08 2019, 1 spec.; Šventosios Miškas f. (2), 19 08 2019, 1 spec.

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

Mažučiai, closed peatbog, 23 06 2019, 3 spec.; Tyrų Pelkė (2), 19 06 2019, 1 spec.;
Vėžaitinės Miškas f. (2), 30 06 2019, 3 spec.

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

Kairiai (2), 06 08 2019, 1 spec.; Tyrų Pelkė (1), 06 06 2019, 1 spec.

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

Mažučiai, closed peatbog, 04 06 2019, 2 spec.

***Phibalapteryx virgata* (Hufnagel, 1767)**

Kairiai (2), 06 08 2019, >20 spec.; Smiltynė, 11 06 2019, 1 spec.

***Selenia lunularia* (Hübner, 1788)**

Tyrų Pelkė (1), 05 08 2019, 1 spec.

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

Falsbergo Miškas f., 21 07 2019, 1 spec.; Gerduvėnai, 26 07 2019, 1 spec.; Šilpelkės Miškas f., 27 07 2019, 4 spec.

TORTRICIDAE

***Acleris literana* (Linnaeus, 1758)**

Šventosios Miškas f. (1), 25 04 2019, 1 spec.

SPHINGIDAE

***Agrius convolvuli* (Linnaeus, 1758)**

Jokūbavas, 14 09 2018, 1 spec.

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

Kairiai (1), 19 05 2019, 2 spec.

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

Kairiai (2), 06 08 2019, 3 spec.; Perkūnai (3), 25 08 2019, 1 spec.; Smiltynė, 11 06 2019, 2 spec.; Tyrų Pelkė (2), 26 06 2019, 1 spec.; Žvelsėnai, Minija river valley, 28 07 2019, 2 spec.

NYMPHALIDAE

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

Vėžaitinės Miškas f. (1), 03 06 2019, 1 spec.

CRAMBIDAE

***Anania funebris* (Ström, 1768)**

Vėžaitinės Miškas f. (1), 03 06 2019, 1 spec.

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

Antroji Melnragė, 26 08 2019, 3 spec.

***Loxostege sticticalis* (Linnaeus, 1761)**

Gerduvėnai, 17 08 2019, 1 spec.

***Nascia ciliialis* (Hübner, 1796)**

Būtingė, 05 06 2019, 1 spec.; Sedos Giria f., 14 06 2019, 2 spec.; Smiltynė, 11 06 2019, 1 spec.

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

Perkūnai (3), 25 08 2019, 1 spec.; Vėžaitinės Miškas f. (3), 21 08 2019, 1 spec.

PYRALIDAE

***Myelois circumvoluta* (Fourcroy, 1785)**

Būtingė, 24 06 2019, 1 spec.

LYCAENIDAE

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

Lapieniškių Miškas f. (1), 04 06 2019, 1 spec. 24 06 2019, 1 spec.

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

Lapieniškių Miškas f. (1), 24 06 2019, 1 spec.

EREBIDAE

***Catocala pacta* (Linnaeus, 1758)**

Tyrų Pelkė (1), 05 08 2019, 1 spec.; Tyrų Pelkė (2), 23 07 2019, 2 spec.

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

Gerduvėnai, 26 07 2019, 3 spec.; Renavo Miškas f., 20 07 2019, 1 spec.; Šilpelkės Miškas f., 27 07 2019, 5 spec.; Tilvikai, 29 07 2019, 2 spec.; Vėžaitinės Miškas f. (3), 15 07 2019, 1 spec.; Vėžaitinės Miškas f. (4), 25 07 2019, >10 spec.

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

Gerduvėnai, 26 07 2019, 3 spec.; Lapieniškių Miškas f. (2), 31 07 2019, 10 spec.; Margininkai, 16 08 2019, 1 spec.; Perkūnai (1), 18 08 2019, 3 spec.; Perkūnai (3), 24 07 2019, 3 spec.; Renavo Miškas f., 20 07 2019, 2 spec.; Šaukliai, juniper forest, 22 07 2019, 1 spec.; Šilpelkės Miškas f., 27 07 2019, 9 spec.; Tilvikai, 29 07 2019, 7 spec. 30 08 2019, 3 spec.; Tyrų Pelkė (2), 23 07 2019, 2 spec.; Vėžaitinės Miškas f. (4), 25 07 2019, 6 spec.

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

Antroji Melnragė, 03 08 2019, >5 spec.

***Laelia coenosa* (Hübner, 1808)**

Žvelsėnai, Minijs river valley, 28 07 2019, 1 spec.

***Macrochilo cribrumalis* (Hübner, 1793)**

Perkūnai (1), 25 06 2019, 2 spec.; Perkūnai (2), 29 06 2019, 1 spec.; Sedos Giria f., 14 06 2019, 1 spec.; Vėžaitinės Miškas f. (3), 15 07 2019, 1 spec.

***Parasemia plantaginis* (Linnaeus, 1758)**

Sedos Giria f., 14 06 2019, 4 spec.

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

Tyrų Pelkė (2), 19 06 2019, 1 spec. 07 07 2019, 1 spec.; Vėžaitinės Miškas f. (2), 30 06 2019, 1 spec.

COSSIDAE

***Acossus terebra* (Denis & Schiffermüller, 1775)**

Viržintų Miškas f., 17 07 2019, 1 spec.

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

Tilvikai, 29 07 2019, 1 spec.; Tyrų Pelkė (2), 19 06 2019, 1 spec.; Perkūnai (2), 29 06 2019, 1 spec.

LIMACODIDAE

***Heterogenea asella* (Denis & Schiffermüller, 1775)**

Perkūnai (1), 25 06 2019, 1 spec.; Lapieniškių Miškas f. (1), 01 07 2019, 1 spec.

TINEIDAE

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

Aukštkalvių Miškas f., 19 07 2019, 1 spec.; Perkūnai (1), 18 08 2019, 1 spec.;

NOTODONTIDAE

****Drymonia obliterata* (Esper, 1785)**

Vėžaitinės Miškas f. (4), 25 07 2019, 1 spec.

Discussion

Several observation sites were selected in Vėžaitinės Miškas f. (Klaipėda district), because it is one of the largest forests in western Lithuania, with different types of habitats. In various areas of the forest, rare species were observed, most of them are described as the southern species (*Bena bicolorana*, *Callopietria juvenina*, *Tiliacea citrigo*). Among them something unexpected was found - *Drymonia obliterata* (Fig. 1). It is a moth species of family Notodontidae which was recorded in Lithuania for the first time. One individual was attracted to light in research site between young mixed forest and old felling site with grassland where individual oaks (*Quercus*) grow. Judging by the different sources, this is the northernmost place of locating this species throughout Europe. *D.obliterata* is prevalent in Europe except Great Britain and Scandinavia and in

the northern part of Europe it is found only in Denmark (Aarvik *et al.*, 2017). According to literature *Drymonia obliterata* inhabits deciduous woodlands with beech (*Fagus*) or oaks (*Quercus*) which are food plants of the larva (Koch, 1991).

Hot and dry weather in summer of 2019 could have stimulated migration of some species of Lepidoptera to northern regions. In the same year in August several rare migrants of owl moths were found, especially in the coastal area of the Baltic sea. One of them is *Noctua interjecta* – widespread in the South and Central Europe but very rare in Lithuania (Ivinskis, 2004). This species is described as quite adaptable as it chooses open to semi-open habitats such as edges along forest trails, wetlands, hedge areas and grasslands (Wagner, 2019). Until now *N. interjecta* was known in six localities in the country (LepiBase, 2019). The last published observations were known from Šnieriškės (Molėtai district) and Vilnius (Švitra *et al.*, 2016). During our study, from mid-July to the end of August three specimens of *N. interjecta* were found in quite distinct habitats in Klaipėda district.

A similar situation was noticed with *Noctua interposita*. Most of the collected specimens were caught in coastal dunes of the Baltic sea. In other research sites in mainland only individual moths were observed.

Noctua comes was found for the first time in Lithuania in Smiltynė, in 1979 and it was believed to be a sporadic migrant (Kazlauskas, 1984). According to the latest data, it was recorded in the districts of Klaipėda, Šiauliai, Utena and Vilnius (Ivinskis & Rimšaitė, 2019). During our study one individual was caught in the coastal dunes (Klaipėda mun.) (Fig. 2).

Tyta luctuosa is a very rare species in Lithuania, larvae feed on goosefoots (*Chenopodium*) and bindweeds (*Convolvulus*) (Ivinskis, 2004). First records of this species in the country were reported during the period of 1965–1975 from Lazdijai, Trakai districts and Vilnius (Kazlauskas, 2003). *T. luctuosa* is common in north Africa, across large parts of Europe and Central Asia, however in some places this species is in decline due to the reduction of suitable habitats (Wagner, 2019). It is a protected species in some European countries, for example, it is included in „Priority Species in UK Biodiversity Action Plan“. The species require warm open conditions with areas of bare ground, grassland, field margins, and on the south-facing banks of railways, roads, ditches, quarries, and other disturbed ground with thin soils and sparse vegetation (BC, 2019). In 2019 two individuals were attracted to the light in Kairiai and Smiltynė (Klaipėda mun.) (Figs. 3, 4).

Several other species, such as *Xylomoia graminea*, are also worth mentioning. It is a type of species characterized by the Euro-Siberian distribution, but its ecology and biology have not yet been well studied (Bury & Czudec, 2019). From the neighboring countries, the species was firstly recorded in Poland in 1988 (Bury & Zajda, 2012). First record of *X. graminea* in Lithuania reported in 2011 (Švitra *et al.*, 2011). Since then this species is periodically found almost every year. In the course of our studies one individual was caught in Sedos Giria forest. The research site was a wet part of mixed forest with ditches which is abundant with common reed (*Phragmites australis*) – the food plant of the larva. Probably the species tends to expand its range to the north and west parts of Europe.

Several individuals of *Parasemia plantaginis* were found at the same research site: four active flying males were observed in mid-June before dusk. This is a Holarctic species which is widespread and found throughout the temperate northern hemisphere

(Europe, Asia, North America). In Europe it occurs from Spain and the northern Mediterranean Sea up to the Arctic Circle (Wagner, 2019). However it is a rare species in Lithuania (Ivinskis, 2004).



Fig. 1. *Drymonia obliterata*



Fig. 2. *Noctua comes*



Fig. 3. *Tyta luctuosa* from Kairiai



Fig. 4. *Tyta luctuosa* from Smiltynė



Fig. 5. *Cryphia algae*



Fig. 6. *Cyclophora linearia*

Cryphia algae - occurs in south and Central Europe and Western Asia (Wagner, 2019). The first questionable record in Lithuania is known since 1938 (Kazlauskas, 1984). Since then several finding facts have been recorded confirming this, most recent data given by Paukkunen *et al.*, 2016 and Švitra *et al.*, 2018. During our study one individual was found in the logging site in Lapieniškių Miškas f. (Klaipėda district) (Fig. 5).

Other rarities, such as: *Cyclophora linearia*, *Epirrhoe galiata* and *Evergestis limbata* have been recorded in Lithuania only a few times in the last two decades (Fig. 6).

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Viena nauja ir 88 retos Lietuvos faunos drugių rūšys aptiktos 2018-2019 metais

M. KAUPYS

Santrauka

Straipsnyje pateikti nauji duomenys apie vieną naują ir 88 retas Lietuvos faunos drugių rūšis. Stebėjimai atlikti Mažeikių, Skuodo, Kretingos, Klaipėdos rajonuose bei Palangos ir Neringos miestų savivaldybėse. Tyrimų metu 2019 m. buvo rasta Lietuvai nauja drugių rūšis – *Drymonia obliterata*. Kitos sugautos itin retos rūšys kaip *Noctua comes*, *N. interposita*, *N. interjecta*, *Tyta luctuosa*, *Cryphia algae*, *Xylomoia graminea* šiame straipsnyje aptiriamos išsamiau.

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