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NEW RECORDS OF LEPIDOPTERA (INSECTA) OF SEVERODONETSK (LUHANSK REGION, UKRAINE) AND ITS ENVIRONS. CONTRIBUTION 2

Дем'яненко, С. О., Каролінський, Є. О. Нові знахідки лускокрилих (Insecta: Lepidoptera) Сєвєродонецька (Луганська область, Україна) та його околиць. Повідомлення 2. ***Вісті Харківського ентомологічного товариства*****. 2022. Т. XXX, вип. 1–2. С. 14–17. DOI: 10.36016/KhESG-2022-30-1-2-3.**
У статті наведено анотований список нових знахідок лускокрилих Сєвєродонецька. Список містить 26 нових для Сєвєродонецька видів, 18 з яких вперше вказуються для території Луганської області. Загалом у Сєвєродонецьку відмічено 1 267 видів Lepidoptera. 7 назв.

Ключові слова: Lepidoptera, лускокрилі, фауна, Сєвєродонецьк, Луганська область.

Demyanenko, S. O., Karolinskiy, E. A. New records of Lepidoptera (Insecta) of Severodonetsk (Luhansk Region, Ukraine) and its environs. Contribution 2. ***The Kharkov Entomological Society Gazette*****. 2022. Vol. XXX, iss. 1-2. P. 13–17. DOI: 10.36016/KhESG-2022-30-1-2-3.**
An annotated list of new records of butterflies and moths of Severodonetsk is provided. The list includes 26 species registered in Severodonetsk for the first time, 18 of which are new records for Luhansk Region. Totally, there are 1,267 species of Lepidoptera registered in Severodonetsk. 7 refs.
Keywords: Lepidoptera, butterflies and moths, fauna, Severodonetsk, Luhansk region.

Демьяненко, С. А., Каролинский, Е. А. Новые находки чешуекрылых (Insecta: Lepidoptera) Северодонецка (Луганская область, Украина) и его окрестностей. Сообщение 2. ***Известия Харьковского энтомологического общества*****. 2022. Т. XXX, вып. 1-2. С. 14–17. DOI: 10.36016/KhESG-2022-30-1-2-3.**
В статье приводится аннотированный список новых находок чешуекрылых Северодонецка. Список включает в себя 26 новых для Северодонецка видов, 18 из которых впервые приводятся для Луганской области. Всего в Северодонецке отмечено 1 267 видов Lepidoptera. 7 назв.
Ключевые слова: Lepidoptera, чешуекрылые, фауна, Северодонецк, Луганская область.

Introduction. Totally, 1,241 species of Lepidoptera are known from Severodonetsk prior to this work: 1,074 species in Demyanenko, Bidzilya and Karolinskiy (2021) and 167 species in Kavurka, Demyanenko and Budashkin (2021).

Materials and methods. This paper is based on the material collected and observed by the first author (otherwise the name of collector is indicated) in Severodonetsk and its suburbs in 2016–2021.

The material was observed, photographed, and collected by netting during daytime excursions and attracting by light (mercury-tungsten 160 W arc lamp).

Identification of the material was carried out by the authors. Identification by photographs was made only for species with distinct differences in habitus. In difficult cases, identification was made by genitalia prepared by maceration in 8–12% NaOH solution. Identification of mines were made by Ellis (2022) and Lepiforum (2022). Plant names are given by 'Plants of the World Online' (POWO, 2022).

The material is stored in the collections of the Institute for Evolutionary Ecology of the National Academy of Sciences of Ukraine (Kyiv) and the Museum of Nature of the V. N. Karazin Kharkiv National University.

The places for attracting by light are 5 km S of Severodonetsk, **'dacha' area** (48.904°N, 38.509°E), further in the text **'D'**, and 3.5 km SE of Severodonetsk (48.925°N, 38.533°E), further in the text **'S'**.

Daytime excursions were made to **sandy-steppe areas in the pine forest** (with alder-birch forests and oak plantings) SE, NE, and N of Severodonetsk (48.91–48.92°N and 38.49–38.65°E, 48.95–48.97°N and 38.54–38.60°E, 49.00–49.02°N and 38.49–38.52°E), further in the text **'P'**.

In the list below all species are new for Severodonetsk, an asterisk (*) indicates a species new for Luhansk Region.

The higher system of Lepidoptera follows Nieukerken *et al.* (2011), with a few corrections from Sohn *et al.* (2013) and Heikkilä *et al.* (2014).

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Results.

Infraorder HETERONEURA Tillyard, 1918

Superfamily NEPTICULOIDEA Stainton, 1854

Family NEPTICULIDAE Stainton, 1854

*** *Stigmella freyella* (Heyden, 1858)**

Material. D: 19.07.2020 — 2 empty mines on *Callistegia sepium*.

*** *Stigmella glutinosae* (Stainton, 1858)**

Material. P: 08.07.2018, 14.07.2018, 28.07.2018, 08.09.2018, 16.09.2018, and 07.07.2019 — tens of empty mines on *Betula*.

*** *Stigmella hybnerella* ([Hübner], 1796)**

Material. P: 08.07.2018 — 3 empty mines on *Crataegus*.

*** *Stigmella desperatella* (Frey, 1856)**

Material. D: 28.07.2019 — 1 mine with a larva on *Malus domestica*.

*** *Stigmella floslactella* (Haworth, 1828)**

Material. D: 28.07.2019 — 1 empty mine on *Corylus*.

*** *Ectoedemia rubivora* (Wocke, 1860)**

Material. P: 06.10.2019 — 1 mine with a larva, 20.10.2019 — 2 empty mines, 27.10.2019 — 26 empty mines, all on *Rubus caesius*.

Superfamily GRACILLARIOIDEA Stainton, 1854

Family BUCCULATRICIDAE Fracker, 1915

*** *Bucculatrix nigricomella* (Zeller, 1839)**

Material. D: 21.05.2021 — 1 sp.

Family GRACILLARIIDAE Stainton, 1854

*** *Phyllonorycter cavella* (Zeller, 1846)**

Material. P: 04.05.2019 — 1 sp., alder-birch forest.

*** *Phyllonorycter ulmifoliella* (Hübner, [1817])**

Material. P: 27.04.2019 — 1 sp., alder-birch forest.

Superfamily YPONOMEUTOIDEA Stephens, 1829

Family SCYTHROPIIDAE Friese, 1966

*** *Scythropia crataegella* (Linnaeus, 1767)**

Material. D: 11.06.2021 — 1 sp.

Superfamily GELECHIOIDEA Stainton, 1854

Family OECOPHORIDAE Bruand, 1850

***Holoscolia huebneri* Koçak, 1980**

Material. P: 26.05.2021 — 2 ♂♂ at dusk near Chyste Lake.

Family DEPRESSARIIDAE Meyrick, 1883

Subfamily DEPRESSARIINAE Meyrick, 1883

***Agonopterix purpurea* (Haworth, [1811])**

Material. S: 28.05.2021 — 1 sp.

Subfamily ETHMIINAE Busck, 1909

***Ethmia fumidella* (Wocke, 1850)**

Material. D: 02.05.2021 — 1 sp.

Family COSMOPTERIGIDAE Heinemann et Wocke, 1876

*** *Cosmopterix orichalcea* Stainton, 1861**

Material. D: 28.07.2017 — 1 sp.

Family GELECHIIDAE Stainton, 1854

*** *Anarsia spartiella* (Schrank, 1802)**

Material. S: 28.05.2021 — 1 sp.

*** *Brachmia blandella* (Fabricius, 1798)**

Material. D: 09.07.2021 — 1 sp.

*** *Metzneria lappella* (Linnaeus, 1758)**

Material. D: 24.06.2016 — 1 sp.

Superfamily PYRALOIDEA Latreille, 1809

Family PYRALIDAE Latreille, 1809

***Megasis rippertella* (Zeller, 1839)**

Material. D: 14.05.2021 — 1 sp.

*** *Euzophera bigella* (Zeller, 1848)**

Material. D: 04.05.2018 — 1 ♀.

Family CRAMBIDAE Latreille, 1810

*** *Eudonia pallida* (Curtis, 1827)**

Material. D: 11.06.2021 — 1 sp.

***Tegostoma comparalis* (Hübner, 1796)**

Material. D: 01.08.2021 — 1 sp.

Superfamily LASIOCAMPOIDEA Harris, 1841

Family LASIOCAMPIDAE Harris, 1841

***Phyllodesma tremulifolia* (Hübner, [1810])**

Material. D: 09.07.2021 — 1 sp.

Superfamily BOMBYCOIDEA Latreille, 1802

Family SPHINGIDAE Latreille, 1802

***Marumba quercus* ([Denis et Schiffermüller], 1775)**

Material. D: 27.06.2021 — 2 sp.

Superfamily GEOMETROIDEA Leach, 1815

Family GEOMETRIDAE Leach, 1815

*** *Idaea elongaria* (Rambur, 1833)**

Material. D: 01.08.2021 — 1 ♂.

***Eupithecia tenuiata* (Hübner, [1813])**

Material. D: 22.08.2021 — 1 ♀.

*** *Epirrita dilutata* ([Denis et Schiffermüller], 1775)**

Material. D: 09.10.2020 — 1 ♂.

Conclusions. According to the results of our research and the literature data, 1,267 species of Lepidoptera are found in Severodonetsk and its environs, 26 of which are given for the first time. At the same time, the list of Lepidoptera of Severodonetsk is still not complete and further studies will certainly supplement it with species new for this area.

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