

The nocturnal Macroheterocera of a Transcarpathian forest reserve

SZABOLCS SZANYI

Abstract

The Bereg lowland is located on both sides of the Hungarian-Ukrainian border. It is rich in nature-like and semi-natural habitats. The fauna of the Hungarian side is relatively intensively surveyed in most insect groups while the Ukrainian part is much less studied. Our target area is the Game Reserve near Velyka Dobron' which belongs to the marginal areas of the former Szernye peatland. The night-active Macro-moths were surveyed here by light-trapping between 2009-2013. 352 species were identified and classified according to faunal types and ecological characteristics.

Key words: Transcarpathia, Bereg lowland, peatland, light trapping, species composition

Introduction

The Bereg lowland is located in the northeastern part of the Pannonian lowland and extends on both sides of the Hungarian-Ukrainian border. It is relatively rich in forested and humid, nature-like and semi-natural habitats, and also in montane relict species (Simon, 1952). Thus, it is biogeographically forming a transition between the Pannonian and Carpathian regions (Deli et al., 1994; Magura et al., 1997; K d b c z & Magura, 1999; Varga 2003). The great variety of vegetation types supports the high diversity of fauna in most insect groups. The Hungarian part of the lowland is more intensively surveyed in some groups of Invertebrates (e.g. Gastropoda, Odonata, Ephemeroptera, Orthoptera, Coleoptera: Carabidae, Trichoptera, Macrolepidoptera) while the Ukrainian part is entomologically much less surveyed. Therefore our study can be only considered as one of the first steps to clarify the faunal composition of a diverse insect group (Macroheterocera). This group is known to reflect the

The Bereg lowland is joining across the Chop-Mukachevo basin to the Transcarpathian lowland. It represents the coolest (yearly average of temperature: 8,9° C) and mostly humid (yearly average of precipitation 609 mm) part of the Great Pannonian plain with an expressed continental character (Baranyi, 2009). The locality of the surveys was the Nagydobrony Game Reserve, founded in 1974 by the government of the former Ukrainian Soviet Socialist Republic.

Material and methods

Characterisation of the study area

The Game Reserve of Nagydobrony (Velyka Dobron') is located on the marginal area of the former Szernye peatland. Although the ancient flora and vegetation of the peatland was extremely rich and valuable, the most important relict habitats and species became extinct. The area is recently dominated by secondary vegetation with some fragments of the original vegetation. An extended oak-ash-elm hardwood gallery forest represents most important nature-like habitat type of the reserve. The canopy coverage is between 70-100% and is formed by the following broadleaved tree species: *Quercus robur*, *Fraxinus angustifolia* subsp. *pannonica*, *Ulmus laevis*, *Populus canescens*, etc. The lowland pedunculate oak-hornbeam forest (Circaeo-Carpinetum) is considered as the climax association of the region. Other components of the nature-like and semi-natural vegetation are the more xerophilous silver lime – oak forests and forest fringes, the mesic and humid forest clearings and willow scrubs. The reserve is surrounded by extended agricultural areas and dissected by drainage channels of the former peatland.

Methods

I started the survey of the night-active Macrolepidoptera in 2009 but in this year only in a private garden dear to the edge of the settling. Mercury vapour lamp (250 W) combined with a large white --- was used for collecting the moths. The survey was continued in 2010 in a standard place in the forest with the same method using a portable generator, and also light trapping with 20 W blacklight tubes was carried out in different parts of the forest.

For the identification of the material I used the volume „Macrolepidoptera of Hungary” (Varga et al., 2011) and the scientific collection of the Department of Evolutionary Zoology of the University.

Results

In 2009-2013 we collected 353 species of Macrolepidoptera from this area. The species of Geometridae and Noctuidae were represented with the highest number of species and individuals. We expect that the number of observed species will essentially increase with more intensive sampling and using different sampling methods (e.g. sugar and odour baits).

The list of species generally follows the nomenclature of the book „Macrolepidoptera of Hungary” (Varga et al., 2011) with corrections of Lafontaine & Schmidt (2010).

List of the collected species

BOMBYCOIDEA Latreille, [1803]

Lasiocampidae Harris, 1841

Malacosoma Hübner, 1820

neustria (Linnaeus, 1758)

Trichiura Stephens, 1828

crataegi (Linnaeus, 1758)

Poecilocampa Stephens, 1828

populi (Linnaeus, 1758)

Euthrix Meigen, 1830

potatoria (Linnaeus, 1758)

Odonestis Germar, 1812

pruni (Linnaeus, 1761).

Lasiocampa Schrank, 1802

quercus (Linnaeus, 1758)
trifolii ([Denis & Schiffermüller], 1775)
Macrothylacia Rambur, 1866
rubi (Linnaeus, 1758)
Gastropacha Ochsenheimer, 1810
quercifolia (Linnaeus, 1758)
populifolia ([Denis & Schiffermüller],
1775)

Sphingidae Latreille, [1802]
Sphinginae Latreille, [1802]

Acherontia Laspeyres, 1809
atropos (Linnaeus, 1758)
Agrius Hübner, 1819
convolvuli (Linnaeus, 1758)

Smerinthinae Grote & Robinson, 1865

Laothoe Fabricius, 1807
populi (Linnaeus, 1758)
Mimas Hübner, 1819
tiliae (Linnaeus, 1758).
Smerinthus Latreille, 1802
ocellatus (Linnaeus, 1758)

Macroglossinae Harris, 1839

Macroglossum Scopoli, 1777
stellatarum (Linnaeus, 1758)
Deilephila Laspeyres, 1809
elpenor (Linnaeus, 1758).
porcellus (Linnaeus, 1758)
Hyles Hübner, 1819
euphorbiae
gallii (Rottemburg, 1775)

Saturniidae Boisduval, [1837] 1834

Saturnia Schrank, 1819
pavonia ([Denis et Schiffermüller],
1775)
pyri ([Denis et Schiffermüller], 1775)

DREPANOIDEA Boisduval, 1823

Drepanidae Meyrick, 1895

Cilix Leach, 1815
glauca (Scopoli, 1763)
Drepana Schrank, 1802
falcataria (Linnaeus, 1758)
Watsonalla Minet, 1985
binaria (Hufnagel, 1767)

Thyatiridae Smith, 1893

Thyatira Ochsenheimer, 1816
batis (Linnaeus, 1758)
Tethea Ochsenheimer, 1816
ocularis (Linnaeus, 1758)
or ([Denis et Schiffermüller], 1775)
Habrosyne Hübner, 1821
pyrithoides (Hufnagel, 1766)

GEOMETROIDEA Leach, [1815]

Geometridae Leach, [1815]

Geometrinae Stephens, 1829

Comibaena Hübner, [1823]
bajularia ([Denis et Schiffermüller],
1775)
Thetidia Boisduval, 1840
smaragdaria (Fabricius, 1787)
Jodis Hübner, [1823]
lactearia (Linnaeus, 1758)
Thalera Hübner, [1823]
fimbrialis (Scopoli, 1763)
Hemitheta Duponchel, 1829
aestivaria (Hübner, 1789)
Chlorissa Stephens, 1831
viridata (Linnaeus, 1758)
cloraria (Hübner, 1813)

Sterrhininae Meyrick, 1892

Idaea Treitschke, 1825
muricata (Hufnagel, 1787)
rufaria (Hübner, 1799)
sericeata (Hübner, 1813)
subsericeata (Haworth, 1809)
dimidiata (Hufnagel, 1767)
biselata (Hufnagel, 1767)
ochrata (Scopoli, 1763)
nitidata (Herrich-Schaeffer, 1847)
rusticata ([Denis et Schiffermüller],
1775)
dilutaria (Hübner, 1799)
aversata (Linnaeus, 1758)
degeneraria (Hübner, 1799)
straminata (Borkhausen, 1794)
rubraria (Staudinger, 1901)
deversaria (Herrich-Schaeffer, 1847)
Scopula Schrank, 1802
immorata (Linnaeus, 1758)

corrivalaria (Kretschmar, 1862)
caricaria (Reutti, 1853)
immutata (Linnaeus, 1758)
floslactata (Haworth, 1809)
virgulata ([Denis et Schiffermüller], 1775)
ornata (Scopoli, 1763)
nigropunctata (Hufnagel, 1767)
flaccidaria (Zeller, 1852)
Timandra Duponchel, 1829
comae (Schmidt, 1931)
Cyclophora Hübner, 1822
pendularia (Clerck, 1759)
albipunctata (Hufnagel, 1767)
annulata (Schulze, 1775)
punctaria (Linnaeus, 1758)
linearia (Hübner, 1799)

Larentiinae Duponchel, 1845

Xanthorrhoe Hübner, 1825
spadicearia ([Denis et Schiffermüller], 1775)
ferrugata (Clerc, 1759)
fluctuata (Linnaeus, 1758)
Catarhoe Herbulot, 1951
rubidata ([Denis et Schiffermüller], 1775)
cuculata (Hufnagel, 1767)
Epirrhoe Hübner, 1825
alternata (Müller, 1764)
galiata ([Denis & Schiffermüller], 1775)
Euphya Hübner, 1825
unangulata (Haworth, 1809)
Camptogramma Stephens, 1831
bilineata (Linnaeus, 1758)
Mesoleuca Hübner, 1825
albicillata (Linnaeus, 1758)
Pelurga Hübner, 1825
comitata (Linnaeus, 1758)
Cosmorhoe Hübner, 1825
ocellata (Linnaeus, 1758)
Eulithis Hübner, 1821
pyraliata (Denis & Schiffermüller, 1775)
Ecliptopera Warren, 1894
silaceata (Denis & Schiffermüller, 1775)
capitata (Herrich-Schäffer, 1839)
Chlorochlysta Hübner, 1825
siterata (Hufnagel, 1767)

Colostygia Hübner, 1825
olivata (Denis & Schiffermüller, 1775)
pectinataria (Knoch, 1781)
Anticollix Prout, 1938
sparsata (Treitschke, 1828)
Triphosa Stephens, 1829
dubitata (Linnaeus, 1758)
Philereme Hübner, 1825
vetulata ([Denis et Schiffermüller], 1775)
Epirrita Hübner, 1822
christyi (Allen, 1906)
Operophtera Hübner, 1825
brumata (Linnaeus, 1758)
Perizoma Hübner, 1825
alchemillatum (Linnaeus, 1758)
flavofasciata (Thunberg, 1792)
Chloroclystis Hübner, 1825
v-ata (Haworth, 1809)
Pasiphila Meyrick, 1883
rectangulata (Linnaeus, 1758)
Eupithecia Curtis, 1825
centaureata ([Denis et Schiffermüller], 1775)
plumbeolata (Haworth, 1809)
linariata ([Denis et Schiffermüller], 1775)
Aplocera Stephens, 1827
plagiata (Linnaeus, 1758)
Asthena Hübner, 1825
albulata (Hufnagel, 1767)
anseraria (Herrich-Schäffer, 1855)
Hydrelia Hübner, 1825
flammeolaria (Hufnagel, 1767)

Ennominae Duponchel, 1845

Abraxas Leach, 1815
grossulariata (Linnaeus, 1758)
Lomaspilis Hübner, 1825
marginata (Linnaeus, 1758)
Ligia Guenée, 1858
adustata ([Denis & Schiffermüller], 1775)
Stegania Guenée, 1845
cararia (Hübner, 1799)
dilectaria (Hübner, 1799)
Macaria Curtis, 1826
notata (Linnaeus, 1758)

alternata ([Denis & Schiffermüller], 1775)
liturata (Clerck, 1759)
brunneata (Thunberg, 1784)
Chiasmia Hübner, 1823
chlathrata (Linnaeus, 1758)
Plagodis Hübner, 1823
pulveraria (Linnaeus, 1758)
dolabraria (Linnaeus, 1767)
Epione Duponchel, 1829
repandaria (Hufnagel, 1767)
Hypoxystis Prout, 1915
pluviaria (Fabricius, 1787)
Apeira Gistel, 1848
syringaria (Linnaeus, 1758)
Ennomos Treitschke, 1825
erosaria (Denis & Schiffermüller, 1775)
quercinaria (Hufnagel, 1767)
fuscantaria (Haworth, 1809)
Selenia Hübner, 1823
dentaria (Fabricius, 1775)
tetralunaria (Hufnagel, 1767)
Crocallis Treitschke, 1825
elinguaria (Linnaeus, 1758)
Colotois Hübner, 1823
pennaria (Linnaeus, 1761)
Angerona Duponchel, 1829
prunaria (Linnaeus, 1758)
Apocheima Hübner, 1825
hispidaria ([Denis & Schiff ermüller], 1775)
Lycia Hübner, 1825
hirtaria (Clerck, 1759)
Biston Leach, 1815
betularius (Linnaeus, 1758)
strataria (Hufnagel, 1767)
Agriopis Hübner, 1825
bajaria ([Denis & Schiff ermüller], 1775)
marginaria (Borkhausen, 1777)
aurantiaria (Hübner, 1799)
Erannis Hübner, 1825
defoliaria (Clerck, 1759)
Synopsis Hübner, 1825
sociaria (Hübner, 1799)
Peribatodes Wehrli, 1943
rhomboidaria ([Denis & Schiffermüller], 1775)

Cleora Curtis, 1825
cinctaria ([Denis & Schiff ermüller], 1775)
Hypomecis Hübner, 1821
roboraria ([Denis & Schiffermüller], 1775)
punctinalis (Scopoli, 1763)
Cleorodes Warren, 1894
lichenaria (Hufnagel, 1767)
Ascotis Hübner, 1825
selenaria ([Denis et Schiffermüller], 1775)
Ectropis Hübner, 1825
crepuscularia ([Denis et Schiffermüller], 1775)
Parectropis Sato, 1980
similaria (Hufnagel, 1767)
Ematurga Lederer, 1853
atomaria (Linnaeus, 1758)
Cabera Treitschke, 1825
pusaria (Linnaeus, 1758)
exanthemata (Scopoli, 1763)
Lomographa Hübner, 1825
bimaculata (Fabricius, 1775)
temerata ([Denis & Schiffermüller], 1775)
Campaea Lamarck, 1819
margaritata (Linnaeus, 1767)
Siona Duponchel, 1829
lineata (Scopoli, 1763)

 NOCTUOIDEA Latreille, 1809
Notodontidae Stephens, 1829

Dicranurinae Duponchel [1845]

Cerura Schrank, 1802
erminea (Esper, 1783)
Furcula Lamarck, 1816
bifida (Brahm, 1787)
furcula (Clerck, 1759)
Harpya Ochsenheimer, 1810
milhauseri (Fabricius, 1775)
Stauropus Germar, 1812
fagi (Linnaeus, 1758)
Notodontinae Stephens, 1829

Drymonia Hübner, 1819
dodonaea ([Denis et Schiffermüller], 1775)

ruficornis (Hufnagel, 1767)
querna ([Denis & Schiff ermüller], 1775)
Gluphisia Boisduval, 1828
crenata (Esper, 1785)
Notodonta Ochsenheimer, 1810
ziczac (Linnaeus, 1758)
Pheosia Hübner, 1819
tremula (Clerck, 1759)
Pterostoma Germar, 1811
palpina (Clerck, 1759)
Spatalia Hübner, 1819
argentina ([Denis & Schiffermüller], 1775)
Ptilodon Hübner, 1822
capucina (Linnaeus, 1758)
cucullina ([Denis & Schiffermüller], 1775)
Ptilophora Stephens, 1828
plumigera ([Denis & Schiff ermüller], 1775)

Phalerinae Butler, 1886
Phalera Hübner, 1819
bucephala (Linnaeus, 1758)

Pygaerinae Duponchel, [1845]
Clostera Samouelle, 1819
anachoreta ([Denis & Schiffermüller], 1775)
anastomosis (Linnaeus, 1758)
curtula (Linnaeus, 1758)
pigra (Hufnagel, 1766)

Erebidae Leach, [1815]
Lymantriinae Hampson, 1893
Lymantria Hübner, 1819
dispar (Linnaeus, 1758)
monacha (Linnaeus, 1758)
Euproctis Hübner, [1819]
chrysoorrhoea (Linnaeus, 1758)
Sphrageidus Maes, 1984
similis (Fuessly, 1775)
Orgyia Ochsenheimer, 1810
antiqua (Linnaeus, 1758)
Arctornis Germar, 1810
l-nigrum (Müller, 1764)
Leucoma Hübner, 1822
salicis (Linnaeus, 1758)

Arctiinae Leach, 1815

Arctiini Leach, 1815

Spilarctia Butler, 1875
lutea (Hufnagel, 1766)
Spilosoma Curtis, 1825
lubricipedum (Linnaeus, 1758)
urticae (Esper, 1789)
Hyphantria Harris, 1841
cunea (Drury, 1773)
Phragmatobia Stephens, 1828
fuliginosa (Linnaeus, 1758)
Arctia Schrank, 1802
caja (Linnaeus, 1758)
Diacrisia Hübner, [1819]
sannio (Linnaeus, 1758)
Callimorpha Latreille, 1809
dominula (Linnaeus, 1758)

Lithosiini Billberg, 1820

Miltochrista Hübner, [1809]
miniata (Forster, 1771)
Cybosia Hübner, [1819]
mesomella (Linnaeus, 1758)
Pelosia Hübner, [1819]
muscerda (Hufnagel, 1766)
Lithosia Fabricius, 1798
quadra (Linnaeus, 1758)
Atolmis Hübner, [1819]
rubricollis (Linnaeus, 1758)
Eilema Hübner, [1819]
griseola (Hübner, 1803)
Wittia de Freina, 1980
sororcula (Hufnagel, 1766)

Rivulinae Grote, 1895

Rivula Guenée, 1845
sericealis (Scopoli, 1763)

Aventiinae Tutt, 1896

Laspeyria Germar, 1810
flexula (Denis & Schiffermüller, 1775)
Trisateles Tams, 1939
emortualis ([Denis & Schiffermüller], 1775)

Herminiinae Leach, 1815

Paracolax Hübner, [1825]

tristalis (Fabricius, 1794)
Herminia Latreille, 1802
tarsipennalis (Treitschke, 1835)
tarsicrinalis (Knoch, 1782)
grisealis ([Denis & Schiffermüller], 1775)
tenuialis (Rebel, 1899)
Polypogon Schrank, 1802
tentacularia (Linnaeus, 1758)
Zanclognatha Hübner, [1825]
lunalis (Scopoli, 1763)
Hypheninae Herrich-Schäffer, 1851
Hypena Schrank, 1802
proboscidalis (Linnaeus, 1758)
Eublemminae Forbes, 1954
Eublemma Hübner, 1821
purpurina (Denis & Schiffermüller)
Phytometrinae Hampson, 1913
Colobochyla Hübner, [1825]
salicalis (Denis & Schiffermüller, 1775)
Calpinae Boisduval, 1840
Scoliopteryx Germar, 1810
libatrix (Linnaeus, 1758)
Catocalinae Boisduval, 1828
Lygephila Guenée, 1852
pastinum (Treitschke, 1826)
Dysgonia Hübner, 1823
algira (Linné, 1767)
Catocala Schrank, 1802
fulminea (Scopoli, 1763)
nupta (Linnaeus, 1758)
elocata (Esper, 1788)
promissa (Denis & Schiffermüller, 1775)
Nolidae Bruand, 1846
Meganola Dyar, 1898
strigula (Denis & Schiffermüller, 1775)
albula (Denis & Schiffermüller, 1775)
Bena Billberg, 1820
bicolorana (Fuessly, 1775)
Pseudoips Hübner, 1822
prasinana (Linnaeus, 1758)
Earias Hübner, 1825
clorana (Linnaeus, 1761)

Nycteola Hübner, 1822
asiatica (Krulikovsky, 1904)
Noctuidae Latreille, 1809
Plusiinae Boisduval, 1828
Abrostola Ochsenheimer, 1816
tripartita (Hufnagel, 1766)
trigemina (Werneburg, 1864)
Macdunnoughia Kostrowicki, 1961
confusa (Stephens, 1850)
Diachrysia Hübner, 1821
chrysitis (Linnaeus, 1758)
stenochrysis (Warren, 1913)
Lamprotes Reichenbach (Leipzig), 1817
c-aureum (Knoch, 1781)
Autographa Hübner, 1821
gamma (Linnaeus, 1758)
Plusia Ochsenheimer, 1816
festucae (Linnaeus, 1758)
Eustrotiinae Grote, 1882
Protodeltote Ueda, 1984
pygarga (Hufnagel, 1766)
Deltote Reichenbach (Leipzig), 1817
bankiana (Fabricius, 1778)
Acontiinae Guenée, 1841
Acontia Ochsenheimer, 1816
trabealis (Scopoli, 1763)
Aedia Hübner, 1823
funesta (Esper, 1786)
leucomelas (Linnaeus, 1758)
Pantheinae Smith, 1898
Colocasia Ochsenheimer, 1816
coryli (Linnaeus, 1758)
Dilobinae Aurivillius, 1889
Diloba Boisduval, 1840
caeruleocephala (Linnaeus, 1758)
Acronictinae Heinemann, 1859
Craniophora Snellen, 1867
ligustri ([Denis & Schiffermüller], 1775)
Moma Hübner, 1820
alpium (Osbeck, 1778)
Acronycta Ochsenheimer, 1816

strigosa ([Denis & Schiffermüller], 1775)

rumicis (Linnaeus, 1758)

Cuculliinae Herrich-Schäffer, 1850

Cucullia Schrank, 1802

umbratica (Linnaeus, 1758)

Amphipyrinae Guenée, 1837

Amphipyra Ochsenheimer, 1816

pyramidea (Linnaeus, 1758)

berbera (Rungs 1949)

tragopoginis (Clerck, 1759)

Psaphidinae Grote, 1896

Asteroscopus Boisduval, 1828

sphinx (Hufnagel, 1766)

Allophyes Tams, 1942

oxyacanthae (Linnaeus, 1758)

Condicinae Poole, 1995

Eucarta Leserer, 1857

amethystina (Hübner, 1803)

virgo (Treitschke, 1825)

Heliothinae Boisduval, 1828

Pyrrhia Hübner, 1821

umbra (Hufnagel, 1766)

Heliothis Ochsenheimer, 1816

armigera (Hübner, 1803)

peltigera ([Denis et Schiffermüller], 1775)

Helicoverpa Hardwick, 1965

armigera (Hübner, 1808)

Bryophilinae Guenée, 1852

Cryphia Hübner, 1818

algae (Fabricius, 1775)

fraudatricula (Hübner, 1803)

Xyleninae Guenée, 1837

Pseudeustrotia Warren, 1913

candidula ([Denis et Schiffermüller], 1775)

Elaphria Hübner, 1818

venustula (Hübner, 1790)

Caradrina Ochsenheimer, 1816

morpheus (Hufnagel, 1766)

kadenii (Freyer, 1836)

Hoplodrina Boursin, 1937

alsines (Brahm, 1791)

blanda ([Denis & Schiffermüller, 1775])

ambigua ([Denis & Schiffermüller, 1775])

Charanyca Billberg, 1820

trigrammica (Hufnagel, 1766)

Athetis Hübner, 1821

gluteosa (Treitschke, 1835)

pallustris (Hübner, 1808)

Dypterygia Stephens, 1829

scabriuscula (Linnaeus, 1758)

Trachea Ochsenheimer, 1816

atriplicis (Linnaeus, 1758)

Mormo Ochsenheimer, 1816

maura (Linnaeus, 1758)

Polyphaenis Boisduval, 1840

sericata (Esper, 1787)

Actinotia Hübner, 1821

polyodon (Clerck, 1759)

Phlogophora Treitschke, 1825

meticulosa (Linnaeus, 1758)

Euplexia Stephens, 1829

lucipara (Linnaeus, 1758)

Hydraecia Guenée, 1841

micacea (Esper, 1789)

Amphipoea Billberg, 1820

oculea (Linnaeus, 1761)

Denticucullus Rákósy, 1996

pygmina (Haworth, 1809)

Apamea Ochsenheimer, 1816

monoglypha (Hufnagel, 1766)

syriaca tallosi Kovács & Varga 1969

sordens (Hufnagel, 1766)

remissa (Hübner, 1809)

anceps ([Denis et Schiffermüller], 1775)

Loscopia Beck, 1996

scolopacina (Esper, 1788)

Mesapamea Heinicke, 1959

secalis (Linnaeus, 1758)

Oligia Hübner, 1821

strigilis (Linnaeus, 1758)

latruncula ([Denis et Schiffermüller], 1775)

Ipimorpha Hübner, 1821

retusa (Linnaeus, 1758)

subtusa (Denis & Schiffermüller, 1775)

Cosmia Ochsenheimer, 1816

diffinis (Linnaeus, 1767)
affinis (Linnaeus, 1767)
trapezina (Linnaeus, 1758)
pyralina ([Denis et Schiffermüller], 1775)
Tiliacea Tutt, 1896
aurago (Denis & Schiffermüller, 1775)
Lithophane Hübner, 1821
ornithopus (Hufnagel, 1766)
Eupsilia Hübner, 1821
transversa (Hufnagel, 1766)
Conistra Hübner, 1821
vaccinii (Linnaeus, 1761)
erythrocephala
 ([Denis & Schiffermüller], 1775)
Agrochola Hübner, 1821
lota (Clerck, 1759)
circellaris (Hufnagel, 1766)
macilenta (Hübner, 1803)
nitida ([Denis et Schiffermüller], 1775)
Xanthia Ochsenheimer, 1816
togata (Esper, 1788)
Cirrhia Hübner, 1821
icteritia (Hufnagel, 1766)
Parastichtis Hübner, 1821
suspecta (Hübner, 1817)
Apterogetum Berio, 2002
ypsillon ([Denis & Schiff ermüller], 1775)
Atypha Hübner, 1821
pulmonaris (Esper, 1790)
Dichonia Hübner, 1816
aprilina (Linnaeus, 1758)
Hadeninae Guenée, 1837
Mythimna Ochsenheimer, 1816
turca (Linnaeus, 1761)
pallens (Linnaeus, 1758)
albipuncta ([Denis et Schiffermüller], 1775)
ferrago (Fabricius, 1787)
impura (Hübner, 1808)
pudorina ([Denis et Schiffermüller], 1775)
Hadula Staudinger, 1889
trifolii (Hufnagel, 1766)
Sideridis Hübner, 1821
rivularis (Fabricius, 1775)

Conisania Hampson, 1905
luteago ([Denis & Schiff ermüller], 1775)
Polia Ochsenheimer, 1816
nebulosa (Hufnagel, 1766)
Mamestra Ochsenheimer, 1816
brassicae (Linnaeus, 1758)
Melanchra Hübner, 1820
persicariae (Linnaeus, 1761)
Lacanobia Billberg, 1820
thalassina (Hufnagel, 1766)
contigua ([Denis et Schiffermüller], 1775)
suasa ([Denis & Schiffermüller], 1775)
oleracea (Linnaeus, 1758)
splendens (Hübner, 1808)
Hada Billberg, 1820
plebeja (Linnaeus, 1761)
Hecatera Guenée, 1852
bicolorata (Hufnagel, 1766)
Hadena Schrank, 1802
confusa (Hufnagel, 1766)
bicruris (Hufnagel, 1766)
Orthosia Ochsenheimer, 1816
incerta (Hufnagel, 1766)
miniosa ([Denis et Schiffermüller], 1775)
cerasi (Fabricius, 1775)
cruda ([Denis et Schiffermüller], 1775)
gothica (Linnaeus, 1758)
Anorthoa Berio, 1980
munda ([Denis et Schiffermüller], 1775)
Egira Duponchel, 1845
conspicillaris (Linnaeus, 1758)
Tholera Hübner, 1821
cespitis ([Denis & Schiffermüller], 1775)
Noctuinae Latreille, 1809
Agrotis Ochsenheimer, 1816
exclamationis (Linnaeus, 1758)
segetum ([Denis et Schiffermüller], 1775)
ipsilon (Hufnagel, 1766)
Axylia Hübner, 1821
putris (Linnaeus, 1761)
Ochropleura Hübner, 1821
plecta (Linnaeus, 1761)
Diarsia Hübner, 1821

brunnea ([Denis et Schiffermüller],
1775)
rubi (Vieweg, 1790)
Noctua Linnaeus, 1758
pronuba (Linnaeus, 1758)
fimbriata (Schreber, 1759)
janthina ([Denis & Schiffermüller],
1775)

janthe (Borkhausen, 1792)
Xestia Hübner, 1818
c-nigrum (Linnaeus, 1758)
ditrapezium ([Denis & Schiffermüller],
1775)
triangulum (Hufnagel, 1766)
baja ([Denis & Schiffermüller], 1775)

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SZABOLCS SZANYI

University of Debrecen, Department of Evolutionary Zoology
H-4034 Debrecen Egyetem tér 1., Hungary
szanyiszabolcs@gmail.com