

Lepidoptera of Humid Area „Orășeni Vale” (Orășeni Vale, Botoșani County, Romania)

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Rezumat

Lepidopterele din zona umedă „Orășeni Vale”, județul Botoșani, România

Zona umedă „Orășeni Vale” se găsește în NE României, la circa 10 km Sud de orașul Botoșani. Este situată aproape de izvoarele râului Miletin, la o altitudine de circa 160 m, într-o zonă depresionară înconjurată de dealuri joase. Solul este mlăștinos (aluvionar), speciile vegetale dominante fiind: *Salix*, *Alnus glutinosa*, *Populus alba*, *Phragmites communis*, *Typha* etc. Dealurile învecinate sunt împădurite cu specii forestiere, dintre care predomină: *Carpinus betulas*, *Populus tremula*, *Quercus petraea*, *Quercus robur*, *Acer platanoides*, *Acer campestre*, *Cerasus avium* etc.

Între anii 1985-2007 autorii au efectuat 91 acțiuni de colectare, fiind identificate un număr de 536 specii reprezentând 13,5 % din numărul speciilor de lepidoptere cunoscute din România.

Se remarcă *Arytrura musculus* (Ménétriés, 1859), specie rară de origine est-asiatică (Coreea, Japonia), considerată un relict din vechea faună preglaciară. Specia se mai găsește în România în Delta Dunării, Dobrogea și lunca inferioară a Mureșului.

Aceasta este prima comunicare entomologică pentru această interesantă zonă umedă, iar pentru bogăția și diversitatea speciilor de lepidoptere propunem declararea zonei ca arie protejată.

Keywords: Lepidoptera, Romania, Humid Area

Introduction

The humid area „Orășeni Vale” is situated in the North East of Romania, at about 10 kilometers away from the South of the city Botoșani. It is situated near the springs of the Miletin River at about 160 meters altitude, in a depression, surrounded by low hills. The land is swampy, the dominant vegetable species are: *Salix*, *Alnus glutinosa*, *Populus alba*, *Phragmites communis*, *Typha* etc. The neighbouring hills are afforested by forestry species, among which predominate: *Carpinus betulas*, *Populus tremula*, *Quercus petraea*, *Quercus robur*, *Acer platanoides*, *Acer campestre*, *Cerasus avium* etc.

Material and Methods

The nocturnal species were collected using a light trap (125, 160 or 250 watt). The diurnal species were captured using an entomological net.

FORSTER (1955), HIGGINS (1991), KOCH (1991), RÁKOSY (1996) were used in the diagnosis of the species.

The systematic of Lepidoptera, according to KARSHOLT (1996) and RÁKOSY (2003).

Results

Between 1985-2007, in this area, there have been made 91 gathering actions, being identified a number of 536 species which represent 13,5 % from

the number of the Lepidoptera species known in Romania.

We can remark *Arytrura musculus* (Ménétriés, 1859), a rare species of Eastern-Asian origin (Korea, Japan), which is considered to be ancient from the old preice fauna. The species can be also found in Romania, in the Danube Delta, South Dobrogea and the meadow of the Mureș River.

Other rare identified species are: *Eugnosta magnificana* (Rebel, 1914); *Aethes fennicana adelaidae* (Toll, 1955); *Trichiura crataegi crataegi* (Linnaeus, 1758); *Gastropacha populifolia* (Denis & Schiffermüller, 1775); *Saturnia pyri* (Denis & Schiffermüller, 1775); *Parnassius mnemosyne* (Linnaeus, 1758); *Colias erate erate* (Esper, 1805); *Cupido (Everes) decolorata* (Staudinger, 1886); *Argynnis laodice* (Pallas, 1771); *Boloria (Clossiana) euphrosyne* (Linnaeus, 1758); *Nymphalis antiopa* (Linnaeus, 1758); *Nymphalis polychloros* (Linnaeus, 1758); *Euphydryas maturna partiensis* (Varga, 1973); *Neptis hylas* (Linnaeus, 1758); *Apatura ilia ilia* (Denis & Schiffermüller, 1775); *Drepana curvatula* (Borkhausen, 1790); *Stegania cararia* (Hübner, 1790); *Stegania dilectaria* (Hübner, 1790); *Artiora evonymaria* (Denis & Schiffermüller, 1775); *Ourapteryx sambucaria* (Linnaeus, 1758); *Lycia pomonaria* (Hübner, 1790); *Scopula corrivalaria* (Kretschmar, 1862); *Scopula virginalis* (Fourcroy,

1785); *Rheumaptera undulata* (Linnaeus, 1758); *Catocala promissa* (Denis & Schiffermüller, 1775); *Catocala electa* (Vieweg, 1790); *Gonospileia triquetra* (Denis & Schiffermüller, 1775); *Lamprotes c-aureum* (Knoch, 1781); *Diachrysa chryson chryson* (Esper, 1789); *Cucullia artemisiae* (Hufnagel, 1766); *Eucarta virgo* (Treitschke, 1835); *Senta flammea* (Curtis, 1828); *Meganephria bimaculosa* (Linnaeus, 1767); *Oligia fasciuncula* (Haworth,

1809); *Gortyna flavago* (Denis & Schiffermüller, 1775); *Archanara neurica* (Hübner, 1808); *Archanara dissoluta* (Treitschke, 1825); *Archanara sparganii* (Esper, 1790); *Archanara algae* (Esper, 1789); *Sedina buettneri* (E. Hering, 1858); *Chortodes morrisii* (Dale, 1837); *Mythimna (Mythimna) pudorina* (Denis & Schiffermüller, 1775); *Naenia typica* (Linnaeus, 1758); *Actebia praecox* (Linnaeus, 1758); *Nola chlamitulalis* (Hübner, 1813).

Table 1

Complete list of Lepidoptera

Nr. Karsholt (1996)	FAMILY / Species	Nr. Karsholt (1996)	FAMILY / Species
HEPIALIDAE – 1 sp.		4303	<i>Aethes margaritana</i> (Haworth, 1811)
63	<i>Triodia sylvina</i> (Linnaeus, 1758)	4309	<i>Aethes smeathmanniana</i> (Fabricius, 1781)
ADELIDAE – 1 sp.		4324	<i>Aethes fennicana adelaidae</i> (Toll, 1955)
365	<i>Adela reaumurella</i> (Linnaeus, 1758)	4326	<i>Aethes nricana</i> (Westwood, 1854)
TINEIDAE – 2 sp.		4351	<i>Cochylis hybridella</i> (Hübner, 1813)
708	<i>Monopis monachella</i> (Hübner, 1796)	4375	<i>Acleris forsskaleana</i> (Linnaeus, 1758)
724	<i>Euplocamus anthracinalis</i> (Scopoli, 1763)	4383	<i>Acleris sparsana</i> (Denis & Schiffermüller, 1775)
PSYCHIDAE – 3 sp.		4439	<i>Tortricodes alternella</i> (Denis & Schiffermüller, 1775)
926	<i>Epichnopterix plumella</i> (Denis & Schiffermüller, 1775)	4655	<i>Bactra lancealana</i> (Hübner, 1799)
999	<i>Megalophanes viciella</i> (Denis & Schiffermüller, 1775)	4667	<i>Endothenia marginana</i> (Haworth, 1811)
1012	<i>Sterrhopterix fusca</i> (Haworth, 1809)	4697	<i>Apotomis lineana</i> (Denis & Schiffermüller, 1775)
YPONOMEUTIDAE – 1 sp.		4703	<i>Apotomis capreana</i> (Hübner, 1817)
1347	<i>Yponomeuta evonymella</i> (Linnaeus, 1758)	4727	<i>Celypha flavipalpana</i> (Herrich-Schäffer, 1851)
GLYPHIPTERIGIDAE – 1 sp.		4836	<i>Gibberifera simplana</i> (Fischer v. Röslerstamm, 1836)
1576	<i>Orthotaelia sparganella</i> (Thunberg, 1788)	4859	<i>Epinotia huebneriana</i> Koçak, 1980
ETHMIIDAE – 1 sp.		4998	<i>Epiblema foenella</i> (Linnaeus, 1758)
1644	<i>Ethmia quadrillella</i> (Goeze, 1783)	5021	<i>Notocelia uddmanniana</i> (Linnaeus, 1758)
DEPRESSARIIDAE – 1 sp.		5022	<i>Notocelia roborana</i> (Denis & Schiffermüller, 1775)
1730	<i>Agonopterix alstromeriana</i> (Clerck, 1759)	5025	<i>Notocelia rosaecolana</i> (Doubleday, 1850)
CHIMABACHIDAE – 1 sp.		5163	<i>Lathronympha strigana</i> (Fabricius, 1775)
2231	<i>Diurnea fagella</i> (Denis & Schiffermüller, 1775)	PTEROPHORIDAE – 4 sp.	
COSMOPTERIGIDAE – 1 sp.		5368	<i>Platyptilia gonodactyla</i> (Denis & Schiffermüller, 1775)
3154	<i>Limnaecia phragmitella</i> Stainton, 1851	5397	<i>Stenoptilia bipunctidactyla</i> (Scopoli, 1763)
GELECHIIDAE – 1 sp.		5485	<i>Pterophorus pentadactyla</i> (Linnaeus, 1758)
3822	<i>Anarsia lineatella</i> Zeller, 1839	5500	<i>Merrifieldia tridactyla</i> (Linnaeus, 1758)
LIMACODIDAE – 1 sp.		PYRALIDAE – 42 sp.	
3907	<i>Apoda limacodes</i> (Hufnagel, 1766)	5578	<i>Lamoria anella</i> (Schiff., 1775)
ZYGAENIDAE – 4 sp.		5620	<i>Synaphe punctalis</i> (Fabricius, 1775)
3941	<i>Jordanita (Jordanita) chloros</i> (Hübner, 1813)	5625	<i>Pyralis regalis</i> (Schiff., 1775)
3991	<i>Zygaena (Zygaena) osterodensis</i> Reiss, 1921	5627	<i>Pyralis farinalis</i> (Linnaeus, 1758)
3995	<i>Zygaena (Zygaena) ephialtes pannonica</i> Holik, 1972	5652	<i>Hypsopygia costalis</i> (Fabricius, 1775)
3998	<i>Zygaena (Zygaena) filipendulae filipendulae</i> (Linnaeus, 1758)	5658	<i>Orthopygia glaucinalis</i> (Linnaeus, 1758)
COSSIDAE – 3 sp.		5661	<i>Endotricha flammealis</i> (Denis & Schiffermüller, 1775)
4151	<i>Cossus cossus</i> (Linnaeus, 1758)	5751	<i>Oncocera (Oncocera) semirubella</i> (Scopoli, 1763)
4176	<i>Zeuzera pyrina</i> (Linnaeus, 1761)	5853	<i>Conobathra tumidana</i> (Denis & Schiffermüller, 1775)

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4178	<i>Phragmataecia castaneae</i> (Hübner, 1790)	5888	<i>Eurhodope (Eurhodope) rosella</i> (Scopoli, 1763)
TORTRICIDAE – 26 sp		5888	<i>Eurhodope (Eurhodope) rosella</i> (Scopoli, 1763)
4237	<i>Cochylimorpha woliniiana</i> (Schleich, 1868)	5898	<i>Myelois circumvoluta</i> (Fourcroy, 1785)
4258	<i>Phalonidia contractana</i> (Zeller, 1847)	5993	<i>Euzophera (Euzophera) pinguis</i> (Haworth, 1811)
4268	<i>Agapeta hamana</i> (Linnaeus, 1758)	6015	<i>Nyctegretis lineana</i> (Scopoli, 1786)
4271	<i>Agapeta zoegana</i> (Linnaeus, 1767)	6072	<i>Homoeosoma (Homoeosoma) sinuella</i> (Fabricius, 1794)
4282	<i>Eugnosta magnificana</i> (Rebel, 1914)	6087	<i>Phycitodes binaevella unitella</i> (Staudinger, 1879)
4287	<i>Eupoecilia angustana</i> (Hübner, 1799)	6235	<i>Calamotropha paludella</i> (Hübner, 1824)
6235	<i>Calamotropha paludella</i> (Hübner, 1824)	6882	<i>Carcharodus alceae</i> (Esper, 1780)
6243	<i>Crambus pascuella</i> (Linnaeus, 1758)	6904	<i>Pyrgus malvae</i> (Linnaeus, 1758)
6250	<i>Crambus pratella</i> (Linnaeus, 1758)	6919	<i>Carterocephalus palaemon</i> (Pallas, 1771)
6253	<i>Crambus perlella</i> (Scopoli, 1763)	6923	<i>Thymelicus lineola</i> (Ochsenheimer, 1808)
6301	<i>Catoptria pinella</i> (Linnaeus, 1758)	6930	<i>Ochlodes venata faunus</i> Turati, 1905
6364	<i>Pediasia contaminella</i> (Hübner, 1796)	PAPILIONIDAE – 1 sp.	
6393	<i>Donacaula forficella</i> (Thunberg, 1794)	6953	<i>Parnassius mnemosyne</i> (Linnaeus, 1758)
6394	<i>Donacaula mucronella</i> (Denis & Schiff., 1775)	6958	<i>Iphiclides podalirius</i> (Linnaeus, 1758)
6416	<i>Elophila nymphaeata</i> (Linnaeus, 1758)	6960	<i>Papilio machaon</i> Linnaeus, 1758
6423	<i>Cataclysta lemnata</i> (Linnaeus, 1758)	PIERIDAE – 11 sp.	
6425	<i>Paraponyx stratiotata</i> (Linnaeus, 1758)	6966	<i>Leptidea sinapis sinapis</i> (Linnaeus, 1758)
6531	<i>Udea ferrugalis</i> (Hübner, 1796)	6973	<i>Anthocharis cardamines</i> (Linnaeus, 1758)
6601	<i>Pyrausta (Pyrausta) despicata</i> (Scopoli, 1763)	6993	<i>Aporia crataegi</i> (Linnaeus, 1758)
6604	<i>Pyrausta (Pyrausta) aurata</i> (Scopoli, 1763)	6995	<i>Pieris brassicae</i> (Linnaeus, 1758)
6605	<i>Pyrausta (Pyrausta) purpuralis</i> (Linnaeus, 1758)	6998	<i>Pieris rapae</i> (Linnaeus, 1758)
6623	<i>Sitochroa palealis</i> (Denis & Schiffermüller, 1775)	7000	<i>Pieris napi</i> (Linnaeus, 1758)
6624	<i>Sitochroa verticalis</i> (Linnaeus, 1758)	7005	<i>Pontia edusa</i> (Fabricius, 1777)
6629	<i>Perinephela lancealis</i> (Denis & Schiffermüller, 1775)	7014	<i>Colias erate erate</i> (Esper, 1805)
6632	<i>Phlyctaenia stachydalis</i> (Germar, 1821)	7015	<i>Colias croceus</i> (Fourcroy, 1785)
6636	<i>Algedonia luctualis</i> (Hübner, 1793)	7021	<i>Colias hyale</i> (Linnaeus, 1758)
6649	<i>Ostrinia nubilalis</i> (Hübner, 1796)	7024	<i>Gonepteryx rhamni rhamni</i> (Linnaeus, 1758)
6655	<i>Anania verbascalis</i> (Denis & Schiffermüller, 1775)	LYCAENIDAE – 13 sp.	
6658	<i>Eurrhyncha hortulata</i> (Linnaeus, 1758)	7030	<i>Hamearis lucina</i> (Linnaeus, 1758)
6667	<i>Pleuroptya ruralis</i> (Scopoli, 1763)	7034	<i>Lycaena phlaeas phlaeas</i> (Linnaeus, 1761)
6680	<i>Agrotis nemoralis</i> (Scopoli, 1763)	7036	<i>Lycaena dispar rutila</i> (Werneburg, 1864)
6682	<i>Diasemia reticularis</i> (Linnaeus, 1761)	7049	<i>Neozephyrus quercus quercus</i> (Linnaeus, 1758)
6719	<i>Nomophila noctuella</i> (Denis & Schiffermüller, 1775)	7062	<i>Satyrium w-album</i> (Knoch, 1782)
LASIOCAMPIDAE – 7 sp.		7065	<i>Satyrium ilicis</i> (Esper, 1779)
6731	<i>Trichiura crataegi crataegi</i> (Linnaeus, 1758)	7093	<i>Cupido (Everes) argiades</i> (Pallas, 1771)
6743	<i>Malacosoma neustria</i> (Linnaeus, 1758)	7094	<i>Cupido (Everes) decolorata</i> (Staudinger, 1886)
6755	<i>Macrothylacia rubi</i> (Linnaeus, 1758)	7097	<i>Celastrina argiolus</i> (Linnaeus, 1758)
6763	<i>Dendrolimus pini montana</i> Staudinger, 1871	7107	<i>Glaucopsyche alexis</i> (Poda, 1761)
6777	<i>Gastropacha quercifolia</i> (Linnaeus, 1758)	7127	<i>Plebeius (Plebeius) argus argus</i> (Linnaeus, 1758)
6778	<i>Gastropacha populifolia</i> (Denis & Schiffermüller, 1775)	7152	<i>Cyaniris (Cyaniris) semiargus semiargus</i> (Rottemburg, 1775)
6780	<i>Odonestis pruni</i> (Linnaeus, 1758)	7163	<i>Polyommatus (Polyommatus) icarus</i> (ROTTEMBURG, 1775)
SATURNIIDAE – 1 sp.		NYMPHALIDAE – 25 sp.	
6793	<i>Saturnia pyri</i> (Denis & Schiffermüller, 1775)	7202	<i>Argynnis paphia paphia</i> (Linnaeus, 1758)
SPHINGIDAE – 9 sp.		7205	<i>Argynnis adippe</i> (Denis & Schiffermüller, 1775)
6819	<i>Mimastilia tiliae</i> (Linnaeus, 1758)	7206	<i>Argynnis niobe niobe</i> (Linnaeus, 1758)
6822	<i>Smerinthus ocellata</i> (Linnaeus, 1758)	7210	<i>Issoria lathonia</i> (Linnaeus, 1758)
6824	<i>Laothoe populi</i> (Linnaeus, 1758)	7220	<i>Boloria (Clossiana) euphrosyne</i> (Linnaeus, 1758)
6828	<i>Agrius convolvuli</i> (Linnaeus, 1758)	7222	<i>Boloria (Clossiana) selene</i> (Denis & Schiffermüller, 1775)
6832	<i>Sphinx ligustri</i> Linnaeus, 1758	7243	<i>Vanessa atalanta</i> (Linnaeus, 1758)

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6843	<i>Macroglossum stellatarum</i> (Linnaeus, 1758)	7245	<i>Vanessa cardui</i> (Linnaeus, 1758)
6853	<i>Hyles euphorbiae</i> (Linnaeus, 1758)	7248	<i>Inachis io</i> (Linnaeus, 1758)
6862	<i>Deilephila elpenor</i> (Linnaeus, 1758)	7250	<i>Aglais urticae</i> (Linnaeus, 1758)
6863	<i>Deilephila porcellus</i> (Linnaeus, 1758)	7252	<i>Polygonia c-album</i> (Linnaeus, 1758)
HESPERIIDAE – 6 sp.		7255	<i>Araschnia levana</i> (Linnaeus, 1758)
6879	<i>Erynnis tages</i> (Linnaeus, 1758)	7257	<i>Nymphalis antiopa</i> (Linnaeus, 1758)
7258	<i>Nymphalis polychloros</i> (Linnaeus, 1758)	7632	<i>Ennomos autumnaria</i> (Werneburg, 1859)
7266	<i>Euphydryas maturna partiensis</i> (Varga, 1973)	7633	<i>Ennomos quercinaria</i> (Hufnagel, 1767)
7271	<i>Melitaea phoebe</i> (Denis & Schiffermüller, 1775)	7636	<i>Ennomos erosaria</i> (Denis & Schiffermüller, 1775)
7283	<i>Melitaea athalia athalia</i> (Rottemburg, 1775)	7641	<i>Selenia dentaria</i> (Fabricius, 1775)
7290	<i>Neptis hylas</i> (Linnaeus, 1758)	7642	<i>Selenia lunularia</i> (Hübner, 1788)
7298	<i>Apatura ilia ilia</i> (Denis & Schiffermüller, 1775)	7643	<i>Selenia tetralunaria</i> (Hufnagel, 1767)
7307	<i>Pararge aegeria tircis</i> (Butler, 1867)	7645	<i>Artiora evonymaria</i> (Denis & Schiffermüller, 1775)
7325	<i>Coenonympha arcania</i> (Linnaeus, 1761)	7654	<i>Crocallis elinguaris</i> (Linnaeus, 1758)
7334	<i>Coenonympha pamphilus</i> (Linnaeus, 1758)	7659	<i>Ourapteryx sambucaria</i> (Linnaeus, 1758)
7344	<i>Aphantopus hyperanthus</i> (Linnaeus, 1758)	7663	<i>Colotois pennaria</i> (Linnaeus, 1761)
7350	<i>Maniola jurtina jurtina</i> (Linnaeus, 1758)	7665	<i>Angerona prunaria</i> (Linnaeus, 1758)
7415	<i>Melanargia galathea</i> (Linnaeus, 1758)	7671	<i>Apocheima hispidaria</i> (Denis & Schiffermüller, 1775)
DREPANIDAE – 9 sp.		7672	<i>Apocheima pilosaria</i> (Denis & Schiffermüller, 1775)
7481	<i>Thyatira batis</i> (Linnaeus, 1758)	7674	<i>Lycia hirtaria hirtaria</i> (Clerck, 1759)
7483	<i>Habrosyne pyritoides</i> (Hufnagel, 1766)	7681	<i>Lycia pomonaria</i> (Hübner, 1790)
7485	<i>Tethea ocularis</i> (Linnaeus, 1767)	7685	<i>Biston strataria</i> (Hufnagel, 1767)
7486	<i>Tethea or</i> (Denis & Schiffermüller, 1775)	7686	<i>Biston betularia</i> (Linnaeus, 1758)
7490	<i>Ochropacha duplaris</i> (Linnaeus, 1761)	7693	<i>Agriopsis leucophaearia</i> (Denis & Schiffermüller, 1775)
7503	<i>Watsonalla binaria</i> (Hufnagel, 1767)	7694	<i>Agriopsis bajaria</i> (Denis & Schiffermüller, 1775)
7507	<i>Drepana curvatula</i> (Borkhausen, 1790)	7696	<i>Agriopsis marginaria</i> (Fabricius, 1776)
7510	<i>Sabra harpagula</i> (Esper, 1786)	7699	<i>Erannis defoliaria</i> (Clerck, 1759)
7512	<i>Cilix glaucata</i> (Scopoli, 1763)	7754	<i>Peribatodes rhomboidaria</i> (Denis & Schiffermüller, 1775)
GEOMETRIDAE – 133 sp.		7773	<i>Cleora cinctaria</i> (Denis & Schiffermüller, 1775)
7518	<i>Archiearis notha</i> (Hübner, 1803)	7783	<i>Hypomecis roboraria</i> (Denis & Schiffermüller, 1775)
7527	<i>Lomaspilis marginata</i> (Linnaeus, 1758)	7784	<i>Hypomecis punctinalis</i> (Scopoli, 1763)
7530	<i>Ligdia adustata</i> (Denis & Schiffermüller, 1775)	7794	<i>Ascotis selenaria</i> (Denis & Schiffermüller, 1775)
7532	<i>Stegania cararia</i> (Hübner, 1790)	7796	<i>Ectropis crepuscularia</i> (Denis & Schiffermüller, 1775)
7534	<i>Stegania dilectaria</i> (Hübner, 1790)	7800	<i>Parectropis similaria</i> (Hufnagel, 1767)
7537	<i>Heliomata glarearia</i> (Denis & Schiffermüller, 1775)	7804	<i>Ematurga atomaria</i> (Linnaeus, 1758)
7540	<i>Macaria alternata</i> (Denis & Schiffermüller, 1775)	7824	<i>Cabera pusaria</i> (Linnaeus, 1758)
7542	<i>Macaria liturata</i> (Clerck, 1759)	7826	<i>Cabera exanthemata</i> (Scopoli, 1763)
7547	<i>Chiasmia clathrata</i> (Linnaeus, 1758)	7829	<i>Lomographa temerata</i> (Denis & Schiffermüller, 1775)
7571	<i>Tephрина arenacearia</i> (Denis & Schiffermüller, 1775)	7836	<i>Campaea margaritata</i> (Linnaeus, 1758)
7606	<i>Plagodis pulveraria</i> (Linnaeus, 1758)	7916	<i>Siona lineata</i> (Scopoli, 1763)
7607	<i>Plagodis dolabraria</i> (Linnaeus, 1767)	7953	<i>Alsophila aescularia</i> (Denis & Schiffermüller, 1775)
7613	<i>Opisthograptis luteolata</i> (Linnaeus, 1758)	7954	<i>Alsophila aceraria</i> (Denis & Schiffermüller, 1775)
7615	<i>Epione repandaria</i> (Hufnagel, 1767)	7969	<i>Geometra papilionaria</i> Linnaeus, 1758
7618	<i>Therapis flavicaria</i> (Denis & Schiffermüller, 1775)	7971	<i>Comibaena bajularia</i> (Denis & Schiffermüller, 1775)
7620	<i>Pseudopanthera macularia</i> (Linnaeus, 1758)	7975	<i>Antonechloris smaragdaria</i> (Fabricius, 1787)
7628	<i>Hypoxystis pluviaria</i> (Fabricius, 1787)	7980	<i>Hemitheia aestivaria</i> (Hübner, 1789)

Nr. Karsholt (1996)	FAMILY / Species	Nr. Karsholt (1996)	FAMILY / Species
7982	<i>Chlorissa viridata</i> (Linnaeus, 1758)	8348	<i>Chloroclysta truncata</i> (Hufnagel, 1767)
7998	<i>Thalera fimbrialis</i> (Scopoli, 1763)	8350	<i>Cidaria fulvata</i> Forster, 1771
8000	<i>Hemistola chrysoptaria</i> (Esper, 1795)	8352	<i>Plemyria rubiginata</i> (Denis & Schiffermüller, 1775)
8012	<i>Cyclophora pendularia</i> (Clerck, 1759)	8357	<i>Thera variata</i> (Denis & Schiffermüller, 1775)
8014	<i>Cyclophora annularia</i> (Fabricius, 1775)	8368	<i>Electrophaes corylata</i> (Thunberg, 1792)
8019	<i>Cyclophora porata</i> (Linnaeus, 1767)	8385	<i>Colostygia pectinataria</i> (Knoch, 1781)
8020	<i>Cyclophora quercimontaria</i> (Bastelberger 1897)	8401	<i>Horisme corticata</i> (Treitschke, 1835)
8022	<i>Cyclophora punctaria</i> (Linnaeus, 1758)	8411	<i>Melanthia procellata</i> (Denis & Schiffermüller, 1775)
8028	<i>Timandra comae</i> A. Schmidt, 1931	8423	<i>Rheumaptera undulata</i> (Linnaeus, 1758)
8036	<i>Scopula immorata</i> (Linnaeus, 1758)	8432	<i>Philereme vetulata</i> (Denis & Schiffermüller, 1775)
8038	<i>Scopula corrivalaria</i> (Kretschmar, 1862)	8435	<i>Euphyia biangulata</i> (Haworth, 1809)
8039	<i>Scopula virginialis</i> (Fourcroy, 1785)	8440	<i>Euphyia scripturata</i> (Hübner, 1799)
8041	<i>Scopula umbelaria</i> (Hübner, 1813)	8442	<i>Epirrita dilutata</i> (Denis & Schiffermüller, 1775)
8042	<i>Scopula nigropunctata</i> (Hufnagel, 1767)	8443	<i>Epirrita christyi</i> (Allen, 1906)
8045	<i>Scopula ornata</i> (Scopoli, 1763)	8447	<i>Operophtera brumata</i> (Linnaeus, 1758)
8054	<i>Scopula rubiginata</i> (Hufnagel, 1767)	8456	<i>Perizoma alchemillata</i> (Linnaeus, 1758)
8059	<i>Scopula marginipunctata</i> (GOEZE, 1781)	8458	<i>Perizoma lugdunaria</i> (Herrich-Schäffer, 1855)
8064	<i>Scopula immutata</i> (Linnaeus, 1758)	8463	<i>Perizoma albulata</i> (Denis & Schiffermüller, 1775)
8100	<i>Idaea serpentata</i> (Hufnagel, 1767)	8464	<i>Perizoma flavofasciata</i> (Thunberg, 1792)
8132	<i>Idaea biselata</i> (Hufnagel, 1767)	8483	<i>Eupithecia linariata</i> (Denis & Schiffermüller, 1775)
8136	<i>Idaea dilutaria</i> (Hübner, 1799)	8509	<i>Eupithecia centaureata</i> (Denis & Schiffermüller, 1775)
8137	<i>Idaea fuscovenosa</i> (Goeze, 1781)	8531	<i>Eupithecia assimilata</i> Doubleday, 1856
8140	<i>Idaea humiliata</i> (Hufnagel, 1767)	8535	<i>Eupithecia tripunctaria</i> Herrich-Schäffer, 1852
8155	<i>Idaea seriata</i> (Schrank, 1802)	8539	<i>Eupithecia succenturiata</i> (Linnaeus, 1758)
8161	<i>Idaea dimidiata</i> (Hufnagel, 1767)	8601	<i>Chloroclystis v-ata</i> (Haworth, 1809)
8174	<i>Idaea trigeminata</i> (Haworth, 1809)	8603	<i>Pasiphila rectangulata</i> (Linnaeus, 1758)
8184	<i>Idaea aversata</i> (Linnaeus, 1758)	8654	<i>Euchoeca nebulata</i> (Scopoli, 1763)
8186	<i>Idaea degeneraria</i> (Hübner, 1799)	8656	<i>Asthenia albulata</i> (Hufnagel, 1767)
8221	<i>Lythria purpuraria</i> (Linnaeus, 1758)	8660	<i>Hydrelia flammeolaria</i> (Hufnagel, 1767)
8239	<i>Scotopteryx chenopodiata</i> (Linnaeus, 1758)	8665	<i>Lobophora halterata</i> (Hufnagel, 1767)
8246	<i>Orthonama obstipata</i> (Fabricius, 1794)	8668	<i>Trichopteryx carpinata</i> (Borkhausen, 1794)
8249	<i>Xanthorhoe designata</i> (Hufnagel, 1767)	NOTODONTIDAE – 25 sp.	
8252	<i>Xanthorhoe spadicearia</i> (Denis & Schiffermüller, 1775)	8698	<i>Clostera curtula</i> (Linnaeus, 1758)
8253	<i>Xanthorhoe ferrugata</i> (Clerck, 1759)	8699	<i>Clostera pigra</i> (Hufnagel, 1766)
8254	<i>Xanthorhoe quadrifasciata</i> (Clerck, 1759)	8701	<i>Clostera anastomosis</i> (Linnaeus, 1758)
8256	<i>Xanthorhoe fluctuata</i> (Linnaeus, 1758)	8706	<i>Cerura erminea</i> (Esper, 1783)
8269	<i>Catarhoe cuculata</i> Hufnagel, 1767	8708	<i>Furcula furcula forficula</i> (Fischer von Waldheim, 1820)
8275	<i>Epirrhoe alternata</i> (Müller, 1764)	8710	<i>Furcula bifida bifida</i> (Brahm, 1787)
8277	<i>Epirrhoe rivata</i> (Hübner, 1813)	8714	<i>Dicranura ulmi</i> (Denis & Schiffermüller, 1775)
8279	<i>Epirrhoe galiata</i> (Denis & Schiffermüller, 1775)	8716	<i>Notodonta dromedarius</i> (Linnaeus, 1758)
8287	<i>Costaconvexa polygrammata</i> (Borkhausen, 1794)	8718	<i>Notodonta tritophus</i> (Denis & Schiffermüller, 1775)
8289	<i>Camptogramma bilineata</i> (Linnaeus, 1758)	8719	<i>Notodonta ziczac</i> (Linnaeus, 1758)
8312	<i>Mesoleuca albicillata</i> (Linnaeus, 1758)	8721	<i>Drymonia dodonaea</i> (Denis & Schiffermüller, 1775)
8335	<i>Eulithis pyraliata</i> (Denis & Schiffermüller, 1775)	8722	<i>Drymonia ruficornis</i> (Hufnagel, 1766)
8338	<i>Ecliptopera silaceata</i> (Denis & Schiffermüller, 1775)	8723	<i>Drymonia oblitterata</i> (Esper, 1785)
8724	<i>Drymonia querna</i> (Denis & Schiffermüller, 1775)	9039	<i>Lamprotes c-aureum</i> (Knoch, 1781)
8725	<i>Drymonia velitaris</i> (Hufnagel, 1766)	9045	<i>Diachrysia chrysis</i> (Linnaeus, 1758)
8727	<i>Pheosia tremula</i> (Clerck, 1759)	9046	<i>Diachrysia tutti</i> (Kostrowicki, 1961)

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8732	<i>Pterostoma palpina</i> (Clerck, 1759)	9049	<i>Diachrysia chryson chryson</i> (Esper, 1789)
8734	<i>Ptilophora plumigera</i> (Denis & Schiff., 1775)	9051	<i>Macdunnoughia confusa</i> (Stephens, 1850)
8738	<i>Ptilodon capucina</i> (Linnaeus, 1758)	9053	<i>Plusia festucae</i> (Linnaeus, 1758)
8739	<i>Ptilodon cucullina</i> (Denis & Schiffermüller, 1775)	9056	<i>Autographa gamma</i> (Linnaeus, 1758)
8747	<i>Gluphisia crenata</i> (Esper, 1785)	9059	<i>Autographa pulchrina</i> (Haworth, 1809)
8750	<i>Phalera bucephala</i> (Linnaeus, 1758)	9091	<i>Abrostola tripartita</i> (Hufnagel, 1766)
8758	<i>Stauropus fagi</i> (Linnaeus, 1758)	9093	<i>Abrostola triplasia</i> (Linnaeus, 1758)
8760	<i>Harpyia milhauseri</i> (Fabricius, 1775)	9097	<i>Emmelia trabealis</i> (Scopoli, 1763)
8762	<i>Spatalia argentina</i> (Denis & Schiffermüller, 1775)	9100	<i>Acontia lucida</i> (Hufnagel, 1767)
	NOCTUIDAE – 166 sp.	9114	<i>Protodeltote pygarga</i> (Hufnagel, 1766)
8772	<i>Moma alpium</i> (Osbeck, 1778)	9118	<i>Deltote bankiana</i> (Fabricius, 1775)
8780	<i>Acronicta megacephala</i> (Denis & Schiffermüller, 1775)	9122	<i>Pseudeustrotia candidula</i> (Denis & Schiffermüller, 1775)
8787	<i>Acronicta rumicis</i> (Linnaeus, 1758)	9147	<i>Eublemma purpurina</i> (Denis & Schiffermüller, 1775)
8789	<i>Craniophora ligustri</i> (Denis & Schiffermüller, 1775)	9169	<i>Trisateles emortalis</i> (Denis & Schiffermüller, 1775)
8793	<i>Simyra albovenosa</i> (Goeze, 1781)	9181	<i>Cucullia fraudatrix</i> Eversmann, 1837
8835	<i>Idia calvaria</i> (Denis & Schiffermüller, 1775)	9188	<i>Cucullia artemisiae</i> (Hufnagel, 1766)
8839	<i>Paracolax tristalis</i> (Fabricius, 1794)	9199	<i>Cucullia umbratica</i> (Linnaeus, 1758)
8845	<i>Herminia tarsicrinalis</i> (Knoch, 1782)	9229	<i>Shargacucullia scrophulariae</i> (Denis & Schiffermüller, 1775)
8846	<i>Herminia grisealis</i> (Denis & Schiffermüller, 1775)	9307	<i>Amphipyra pyramidea</i> (Linnaeus, 1758)
8849	<i>Polygogon tentacularia</i> (Linnaeus, 1758)	9310	<i>Amphipyra livida</i> (Denis & Schiffermüller, 1775)
8852	<i>Pechipogo strigilata</i> (Linnaeus, 1758)	9311	<i>Amphipyra tragopoginis</i> (Clerck, 1759)
8856	<i>Zanclognatha lunalis</i> (Scopoli, 1763)	9320	<i>Asteroscopus sphinx</i> (Hufnagel, 1766)
8858	<i>Zanclognatha tarsipennalis</i> Treitschke, 1835	9323	<i>Brachionycha nubeculosa</i> (Esper, 1785)
8873	<i>Catocala fraxini</i> (Linnaeus, 1758)	9331	<i>Diloba caeruleocephala</i> (Linnaeus, 1758)
8874	<i>Catocala nupta</i> (Linnaeus, 1767)	9365	<i>Heliothis maritima bulgarica</i> Draudt, 1938
8877	<i>Catocala elocata</i> (Esper, 1787)	9367	<i>Heliothis peltigera</i> (Denis & Schiffermüller, 1775)
8882	<i>Catocala promissa</i> (Denis & Schiffermüller, 1775)	9370	<i>Helicoverpa armigera armigera</i> (Hübner, 1808)
8883	<i>Catocala electa</i> (Vieweg, 1790)	9372	<i>Pyrrhia umbra</i> (Hufnagel, 1766)
8890	<i>Catocala fulminea</i> (Scopoli, 1763)	9396	<i>Elaphria venustula</i> (Hübner, 1790)
8932	<i>Lygephila pastinum</i> (Treitschke, 1826)	9417	<i>Caradrina morpheus</i> (Hufnagel, 1766)
8934	<i>Lygephila cracca</i> (Denis & Schiffermüller, 1775)	9433	<i>Paradrina clavipalpis</i> (Scopoli, 1763)
8958	<i>Aedia funesta funesta</i> (Esper, 1786)	9449	<i>Hoplodrina octogenaria</i> (Goeze, 1781)
8969	<i>Euclidia glyphica</i> (Linnaeus, 1758)	9454	<i>Hoplodrina ambigua</i> (Denis & Schiffermüller, 1775)
8973	<i>Gonospileia triquetra</i> (Denis & Schiffermüller, 1775)	9456	<i>Charanyca trigrammica</i> (Hufnagel, 1766)
8975	<i>Laspeyria flexula</i> (Denis & Schiffermüller, 1775)	9458	<i>Atypha pulmonaris</i> (Esper, 1790)
8981	<i>Arytrura musculus</i> (Ménétriés, 1859)	9474	<i>Athetis gluteosa</i> (Treitschke, 1835)
8984	<i>Scoliopteryx libatrix</i> (Linnaeus, 1758)	9481	<i>Dypterygia scabriuscula</i> (Linnaeus, 1758)
8995	<i>Hypena rostralis</i> (Linnaeus, 1758)	9483	<i>Rusina ferruginea</i> (Esper, 1785)
9006	<i>Phytometra viridaria</i> (Clerck, 1759)	9501	<i>Trachea atriplicis</i> (Linnaeus, 1758)
9008	<i>Rivula sericealis</i> (Scopoli, 1763)	9503	<i>Euplexia lucipara</i> (Linnaeus, 1758)
9018	<i>Colobochyla salicalis</i> (Denis & Schiffermüller, 1775)	9505	<i>Phlogophora meticulosa</i> (Linnaeus, 1758)
9515	<i>Actinotia polyodon</i> (Clerck, 1759)	9919	<i>Lacanobia (Dianobia) contigua</i> (Denis & Schiffermüller, 1775)
9525	<i>Eucarta virgo</i> (Treitschke, 1835)	9920	<i>Lacanobia (Dianobia) suasa</i> (Denis & Schiffermüller, 1775)
9527	<i>Ipimorpha retusa</i> (Linnaeus, 1761)	9927	<i>Hecatera dysodea</i> (Denis & Schiffermüller, 1775)
9528	<i>Ipimorpha subtusa</i> (Denis & Schiffermüller, 1775)	9928	<i>Hecatera bicolorata</i> (Hufnagel, 1766)
9537	<i>Parastichtis ypsilon</i> (Denis & Schiffermüller, 1775)	9933	<i>Hadena bicruris</i> (Hufnagel, 1766)
9540	<i>Mesogona oxalina</i> (Hübner, 1803)	9935	<i>Conisania (Lutheohadena) luteago luteago</i> (Denis & Schiffermüller, 1775)

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9549	<i>Cosmia pyralina</i> (Denis & Schiffermüller, 1775)	9940	<i>Hadena (Hadena) confusa</i> (Hufnagel, 1766)
9550	<i>Cosmia trapezina</i> (Linnaeus, 1758)	9955	<i>Sideridis (Aneda) rivularis</i> (Fabricius, 1775)
9552	<i>Atethmia centrago</i> (Haworth, 1809)	9984	<i>Melanchnra persicariae</i> (Linnaeus, 1761)
9556	<i>Xanthia (Xanthia) togata</i> (Esper, 1788)	9987	<i>Mamestra brassicae</i> (Linnaeus, 1758)
9557	<i>Tiliacea aurago</i> (Denis & Schiffermüller, 1775)	9993	<i>Polia nebulosa</i> (Hufnagel, 1766)
9558	<i>Tiliacea sulphurago</i> (Denis & Schiffermüller, 1775)	9999	<i>Mythimna (Mythimna) turca</i> (Linnaeus, 1761)
9559	<i>Xanthia (Cirrha) icteritia</i> (Hufnagel, 1766)	10001	<i>Mythimna (Hyphilare) ferrago</i> Fabricius, 1787)
9562	<i>Tiliacea citrigo</i> (Linnaeus, 1758)	10002	<i>Mythimna (Hyphilare) albipuncta</i> (Denis & Schiffermüller, 1775)
9566	<i>Agrochola (Sunira) circellaris</i> (Hufnagel, 1766)	10004	<i>Mythimna (Mythimna) pudorina</i> (Denis & Schiffermüller, 1775)
9569	<i>Agrochola (Leptologia) lota</i> (Clerck, 1759)	10007	<i>Mythimna (Mythimna) pallens</i> (Linnaeus, 1758)
9571	<i>Agrochola (Leptologia) macilenta</i> (Hübner, 1809)	10010	<i>Leucania (Leucania) obsoleta</i> (Hübner, 1803)
9596	<i>Eupsilia transversa</i> (Hufnagel, 1766)	10011	<i>Leucania (Leucania) comma</i> (Linnaeus, 1761)
9600	<i>Conistra vaccinii</i> (Linnaeus, 1761)	10017	<i>Senta flammea</i> (Curtis, 1828)
9642	<i>Brachylomia viminalis</i> (Fabricius, 1776)	10022	<i>Mythimna (Hyphilare) l-album</i> (Linnaeus, 1767)
9660	<i>Lithophane ornitopus</i> (Hufnagel, 1766)	10037	<i>Orthosia (Orthosia) incerta</i> (Hufnagel, 1766)
9679	<i>Meganephria bimaculosa</i> (Linnaeus, 1767)	10038	<i>Orthosia (Semiophora) gothica</i> (Linnaeus, 1758)
9682	<i>Allophyes oxyacanthae</i> (Linnaeus, 1758)	10043	<i>Orthosia (Monima) populeti</i> (Fabricius, 1775)
9748	<i>Apamea monoglypha</i> (Hufnagel, 1766)	10044	<i>Orthosia (Monima) cerasi</i> (Fabricius, 1775)
9770	<i>Apamea anceps</i> (Denis & Schiffermüller, 1775)	10054	<i>Egira conspicillaris</i> (Linnaeus, 1758)
9771	<i>Apamea sordens</i> (Hufnagel, 1766)	10065	<i>Tholera decimalis</i> (Poda, 1761)
9774	<i>Apamea scolopacina</i> (Esper, 1788)	10082	<i>Axylia putris</i> (Linnaeus, 1761)
9780	<i>Oligia strigilis</i> (Linnaeus, 1758)	10086	<i>Ochropleura plecta</i> (Linnaeus, 1758)
9781	<i>Oligia versicolor</i> (Borkhausen, 1792)	10096	<i>Noctua pronuba</i> Linnaeus, 1758
9782	<i>Oligia latruncula</i> (Denis & Schiffermüller, 1775)	10098	<i>Noctua interposita</i> (Hübner, 1790)
9784	<i>Oligia fasciuncula</i> (Haworth, 1809)	10099	<i>Noctua comes</i> Hübner, 1813
9789	<i>Mesapamea secalis</i> (Linnaeus, 1758)	10100	<i>Noctua fimbriata</i> (Schreber, 1759)
9814	<i>Rhizedra lutosa</i> (Hübner, 1803)	10102	<i>Noctua janthina</i> (Denis & Schiffermüller, 1775)
9828	<i>Amphipoea oculoa nictitans</i> (Linnaeus, 1767)	10199	<i>Xestia c-nigrum</i> (Linnaeus, 1758)
9829	<i>Amphipoea fucosa</i> (Freyer, 1830)	10200	<i>Xestia ditrapezium</i> (Denis & Schiffermüller, 1775)
9834	<i>Hydraecia micacea</i> (Esper, 1789)	10201	<i>Xestia triangulum</i> (Hufnagel, 1766)
9841	<i>Gortyna flavago</i> (Denis & Schiffermüller, 1775)	10218	<i>Eugraphe sigma</i> (Denis & Schiffermüller, 1775)
9865	<i>Archanara neurica</i> (Hübner, 1808)	10224	<i>Cerastis rubricosa</i> (Denis & Schiff., 1775)
9866	<i>Archanara issolute</i> (Treitschke, 1825)	10228	<i>Naenia typica</i> (Linnaeus, 1758)
9867	<i>Archanara sparganii</i> (Esper, 1790)	10232	<i>Anaplectoides prasina</i> (Denis & Schiff., 1775)
9868	<i>Archanara algae</i> (Esper, 1789)	10236	<i>Protolampra sobrina</i> (Duponchel, 1843)
9878	<i>Chortodes morrisii</i> (Dale, 1837)	10244	<i>Actebia praecox</i> (Linnaeus, 1758)
9895	<i>Hadula (Caloestra) trifolii</i> (Hufnagel, 1766)	10346	<i>Agrotis ipsilon</i> (Hufnagel, 1766)
9912	<i>Lacanobia (Lacanobia) w-latinum</i> (Hufn., 1766)	10348	<i>Agrotis exclamationis</i> (Linnaeus, 1758)
9914	<i>Lacanobia (Diatarxia) splendens</i> (Hübner, 1808)	10351	<i>Agrotis segetum</i> (Denis & Schiffermüller, 1775)
9918	<i>Lacanobia (Dianobia) thalassina</i> (Hufnagel, 1766)		
	PANTHEIDAE – 1 sp.	10477	<i>Cybosia mesomella</i> Linnaeus, 1758
10372	<i>Colocasia coryli</i> (Linnaeus, 1758)	10479	<i>Pelosia muscerda</i> (Hufnagel, 1766)
	Lymantriidae – 6 sp.	10483	<i>Atolmis rubricollis</i> Linnaeus, 1758
10376	<i>Lymantria dispar</i> (Linnaeus, 1758)	10485	<i>Lithosia quadra</i> Linnaeus, 1758
10387	<i>Calliteara pudibunda</i> (Linnaeus, 1758)	10489	<i>Eilema lurideola</i> Zincken, 1817
10405	<i>Euproctis chrysorrhoea</i> (Linnaeus, 1758)	10499	<i>Eilema sororcula</i> (Hufnagel, 1766)
10406	<i>Euproctis similis</i> (Fuessly, 1775)	10517	<i>Amata phegea</i> (Linnaeus, 1758)
10414	<i>Leucoma salicis</i> (Linnaeus, 1758)	10521	<i>Dysauxes ancilla</i> Linnaeus, 1761
10416	<i>Arctornis l-nigrum</i> (Müller, 1764)	10550	<i>Phragmatobia fuliginosa</i> (Linnaeus, 1758)
	NOLIDAE – 8 sp.	10566	<i>Spilosoma lutea</i> (Hufnagel, 1766)
10425	<i>Meganola albula</i> (Denis & Schiffermüller, 1775)	10567	<i>Spilosoma lubricipeda</i> Linnaeus, 1758
10429	<i>Nola confusalis</i> (Herrich-Schäffer, 1847)	10570	<i>Hyphantria cunea</i> (Drury, 1773)
10435	<i>Nola cristatula</i> (Hübner, 1793)	10572	<i>Diaphora mendica</i> Clerck, 1759
10437	<i>Nola chlamitulalis</i> (Hübner, 1813)	10583	<i>Diacrisia sannio</i> Linnaeus, 1758

Nr. Karsholt (1996)	FAMILY / Species	Nr. Karsholt (1996)	FAMILY / Species
10444	<i>Nycteola asiatica</i> (Krulikovsky, 1904)	10598	<i>Arctia caja</i> Linnaeus, 1758
10449	<i>Bena bicolorana</i> (Fuessly, 1775)	10600	<i>Arctia villica</i> Linnaeus, 1758
10451	<i>Pseudoips prasinana</i> (Linnaeus, 1758)	10603	<i>Callimorpha dominula</i> Linnaeus, 1758
10456	<i>Earias clorana</i> (Linnaeus, 1761)	10605	<i>Euplagia quadripunctaria</i> Poda, 1761
	ARCTIIDAE – 19 sp.		
10475	<i>Miltochrista miniata</i> Forster, 1771		

Conclusions

This is the first entomological communication for this interesting area.

For the following species' existence *Arytrura musculus* (Ménétriés, 1859), *Euplagia quadripunctaria* Poda, 1761, *Euphydryas maturna partiensis* (Varga, 1973) and *Lycaena dispar rutila* (Werneburg, 1864), mentioned in the ANNEX 2 from the Habitats Directive of the European Union we propose to declare the area as a protected area.

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