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THE LEPIDOPTERA IN THE COLLECTION OF ȚĂRII CRIȘURILOR MUSEUM, ORADEA

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Abstract. The paper lists the collection of determined Lepidoptera deposited in Țării Crișurilor Museum, Oradea, Romania. The list contains 77 suprageneric taxa, 15 taxa determined at genus level and 132 species, with a total of 551 specimens, out of which 46 species and 183 specimens belong to four Red List categories.

Introduction

The entomological collection in Țării Crișurilor Museum (Crish County Museum) is still unpublished and includes 4.520 specimens. The determined ones belong to 476 species. Most specimens are from different regions of Romania and the oldest ones were collected in 1952. The Lepidoptera include 1.134 specimens, out of which 551 (48.6 %) are determined as belonging to 132 species, and 344 specimens (30.3 %) have no collecting data. The greatest part of them was collected by Mircea Ion Paina, Tiberiu Jurcsák and P. Perényi and is previous to 1980 (except 5 *Hyphantria cunea* (Drury 1773) and 1 *Saturnia pyri* (Denis & Schiffermüller 1775) specimens). They were determined by their respective collector and partly sexed by the same persons (and partly by the present author), even though the original labels not always provided information in this respect. Some notable exceptions are the

specimens determined by the eminent Romanian lepidopterologists Aurelian Popescu-Gorj and Friedrich König.

For the present paper, the labels were transcribed and listed in systematic order of the respective taxa (Table 1), with no conjecture information added regarding the collector and the person who has determined the specimens. When given information was lacking (e. g. collection site or date), it is replaced by a dash -. The localities names were updated and for each locality the specimens were listed by month and day, not by year, in order to suggest roughly the flight period and seasonal distribution (Popescu-Gorj 1964).

The taxa names were revised and numbered according to newer phylogenetic lists (Karsholt & Razowski 1996, Abadjiev 2003, Rákossy et al. 2003). The synonymies from the original labels were not mentioned. Allochthonous species such as *Bombyx mori*, which cannot survive in the wild in our region, were not listed. The insufficient available literature did not allow the revision of all the specimens, so the present publication is an invitation to further study for any interested lepidopterologists.

This systematic list includes also the threat levels according to the IUCN Red List of Threatened Species (Rákossy et al. 2003). In our collection, a total of 46 species and 183 specimens belong to the following Red List categories: 2 Endangered species (9 specimens), 14 Vulnerable species (27 specimens), 29 Near Threatened species (146 specimens), and 1 Data Deficient species (1 specimen).

The most frequent families are: Nymphalidae (23 genera, 34 species, and 179 specimens), Pieridae (7 genera, 9 species, and 133 specimens), Lycaenidae (4 genera, 8 species, and 50 specimens) and Noctuidae (19 genera, 20 species, and 35 specimens).

All localities with no district name mentioned in brackets () in Table 1 are from Bihor district. The majority of specimens were collected in Băile 1 Mai (53) and Oradea (38).

Abbreviations: **K & R** = Karsholt & Razowski numbering; **Spec.** = specimens; **RL** = Red List status; **EN** = endangered; **VU** = vulnerable; **NT** = near threatened; **DD** = data deficient; **l** = larva(e); **n** = nymph(s); **B.** = Băile (spa); **Păd.** = forest; **V.** = Valley; **Muz.** = Museum; **M.** = Mountain; **P.** = Brook; **D.** = Hill; **Peșt.** = Cave; **Vf.** = Peak; **TC** = Tulcea district; **GR** = Giurgiu district; * = commented species (see below).

Localities with collected species numbers

(Figure 1)

Băile 1 Mai 30 ; Băile 1 Mai, V. Popii 12 ; Băile 1 Mai, P. Pețea 11 ; Oradea 27; Oradea, pād. Paleu 11 ; Betfia, D. Șomleu 16; C. A. Rosetti (Tulcea district) 16; Pād. Săldăbagiu 15 ; Salonta 5 ; Muz. Salonta 20 ; Băița-Ruginoasa 11 ; Băița 6 ; D. Craiului 8 ; Răbăgani 7 ; V. Bulz 6 ; Bohodei (Padiș) 5 ; V. Leșului 5 ; Cetățile Rădesei (Padiș) 3 ; Sâmbăta 1 ; Peșt. Focul Viu (Padiș) 1 ; Șimian 1 ; Rātu Florilor (Padiș) 1 ; Vf. Bihor 1 ; V. Galbenei (Padiș) 1 ; Ștei 1 ; Peșt. Devențului (Vadu Crișului) 1 ; Cefa 1 ; Vadu Crișului 1 ; Sfântu Gheorghe (Tulcea district) 1 ; Sulina (Tulcea district) 1 ; Giurgiu (Giurgiu district) (?) 1 ; M. Tatra (Czech Republic) 1.

Commented species

(see Table 1)

6788 *Agria tau* (L. 1758) – Not mentioned previously in our region (Crișana) in Rákosy et al. 2003.

6793 *Saturnia pyri* (Denis & Shiffermüller 1775) - Not mentioned in our region (Crișana) after 1980 in Rákosy et al. 2003.

6953 *Parnassius mnemosyne* (L. 1758) – Subspecies undetermined. The three valid subspecies described from Romania are not thoroughly studied on ecological and genetical basis (Rákosy et al. 2003).

6955 *P. apollo* (L. 1758) – Subspecies undetermined.

7290 *Neptis sappho* (Pallas 1771) – In Rákosy et al. 2003, it is listed as synonym to *Neptis hylas* (Linnaeus 1758), which is a southeastern Asian species.

7299 *Apatura iris* (Linnaeus 1758) – Locality unknown. Not mentioned previously in our region (Crișana) in Rákosy et al. 2003.

7340 *Pyronia (Pyronia) tithonus* (L. 1767) – The last six specimens listed have been erroneously labeled as *Pyronia (Idata) cecilia cecilia* (Vallantin 1894), a species observed only in Dobrușda (S-E Romania) (Mann 1866, quoted in Rákosy et al. 2003). In Rákosy et al. 2003, this species is considered extinct from the Romanian fauna, though it is a southern species, occurring in Morocco, Algeria, Tunisia, Portugal, Spain, southern France,

Italy, Croatia, Albania and Turkey, and its presence in Romania was doubtful (Higgins & Riley 1984).

10570 *Hyphantria cunea* (Drury 1773) – Not mentioned in our region (Crişana) after 1980 in Rákossy et al. 2003.

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Figure. 1. Collection sites of the determined Lepidoptera preserved in Țării Crișurilor Museum, Oradea.

Table 1. Systematic list of the Lepidoptera preserved in Țării Crișurilor Museum, Oradea

Nr	K & R	Taxa	Spec.	Collection data	R L
1.	321	INCURVARIOIDEA	1	Băița-Ruginoasa 15 IV 1972 leg. Paina	
2.	335	Adelidae			
3.	336	Adelinae			
4.	359	<i>Adela</i> sp.			
5.	450	TINEOIDEA	1	B. 1 Mai 22 V 1970 leg. Paina	
6.	451	Tineidae			
7.	722	Euplocaminae			
8.	724	<i>Euplocamus anthracinalis</i> (Scopoli 1763)			
9.	1636	GELECHIOIDEA	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
10.	1637	Ethmiidae			
11.	1646	<i>Ethmia candidella</i> (Alphéraky 1908)			
12.	2434	Coleophoridae			
13.	2448	<i>Coleophora</i> sp.	2 (n)	C. A. Rosetti (TC) 26 V 1980 leg. Paina	
14.	3898	ZYGAENOIDEA	2	B. 1 Mai 17 VI 1978 leg. M. Bălan (?)	
15.	3919	Zygaenidae			
16.	3960	Zygaeninae			
17.	3961	<i>Zygaena</i> sp.			
18.	3974	<i>Zygaena (Mesembrynus) purpuralis</i> (Brünnich 1763)	1	Păd. Săldăbagiu 5 VI 1966	
19.	3983	<i>Zygaena (Zygaena) loti</i> (Denis & Schiffermüller 1775)	1	B. 1 Mai 27 VI 1958	
20.	3998	<i>Zygaena (Zygaena) filipendulae</i> (Linnaeus 1758)	10	Păd. Săldăbagiu 5 VI 1966, V. Bulz (la canton) 6 VII 1973, Oradea, păd. Paleu 7 VII 1966	
21.	3999	<i>Zygaena (Zygaena) lonicerae</i> (Scheven 1777)	2	Păd. Săldăbagiu 19 VI 1966	
22.	4001	SESIIOIDEA	1	B. 1 Mai 27 V 1970 leg. Paina	
23.	4015	Sesiidae			
24.	4027	Sesiinae			
25.	4029	<i>Sesia</i> sp.			
26.	5318	ALUCITOIDEA	2	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
27.	5319	Alucitidae			
28.	5329	<i>Alucita desmodactyla</i> Zeller 1847			
29.	5563	PYRALOIDEA			
30.	5564	Pyrallidae	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
31.	5665	Phycitinae			
32.	5751	<i>Oncocera (Oncocera) semirubella</i> (Scopoli 1763)			
33.	6203	Crambinae			
34.	6379	<i>Ancylolomia palpella</i> (Denis & Schiffermüller 1775)	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
35.	6528	Pyraustinae	2	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
36.	6531	<i>Udea ferrugalis</i> (Hübner 1796)			

Table 1. continued

Nr.	K & R	Taxa	Spec.	Collection data	R L
37.	6719	<i>Nomophila noctuella</i> (Denis & Schiffermüller 1775)	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
38.	6721	LASIOCAMPOIDEA			
39.	6722	Lasio campidae			
40.	6736	Lasio campinae			
41.	6752	<i>Lasio campia quercus quercus</i> (Linnaeus 1758)	2♀♀	Muz. Salonta 17 VIII 1960, Oradea 18 VIII 1953 leg. Galamb	
42.	6755	<i>Macrothylacia rubi</i> (Linnaeus 1758)	1 1	Oradea 2 VI 1966 -	NT
43.	6777	<i>Gastropacha quercifolia</i> (Linnaeus 1758)	3	Muz. Salonta 22 VII 1960, B. 1 Mai 23 VII 1958, Oradea 9 VIII 1961 leg. Jurcsák - Poliș	NT
44.	6781	BOMBYCOIDEA			
45.	6785	Saturniidae			
46.	6786	Aglinae			
47.	*6788	<i>Agria tau</i> (Linnaeus 1758)	1♂	Băița-Ruginoasa 15 IV 1978 leg. Paina	
48.	6789	Saturniinae			
49.	6792	<i>Saturnia sp.</i>	1 (n)	Oradea 8 VII 1962 leg. Jurcsák	
50.	*6793	<i>Saturnia pyri pyri</i> (Denis & Schiffermüller 1775)	2♂♂ 1♀ 1♂	Oradea 10 V 1975 leg. R. Ilieș, Salonta V 1982 leg. Györgyi L. Oradea 5 V 1974 leg. Kosztelni I. -	VU
51.	6812	Sphingidae			
52.	6813	Smerinthinae			
53.	6824	<i>Laiothoe populi</i> (Linnaeus 1758)	2	Oradea 23 V 1965, 23 V 1966	
54.	6826	Sphinginae			
55.	6830	<i>Acherontia atropos</i> (Linnaeus 1758)	3 2	Oradea 3 IX 1974 leg. Paina, 10 IX 1974 leg. Jurcsák, X 1978 leg. Köteles Șt. -	VU
56.	6837	Macroglossinae			
57.	6843	<i>Macroglossum stellatarum</i> (Linnaeus 1758)	4	Oradea 1 VIII 1957, V. Leșu lui 17 VIII 1971 leg. Paina	
58.	6853	<i>Hyles euphorbiae</i> (Linnaeus 1758)	14 (I) 2	B. 1 Mai 17 VI 1958, Oradea 24 VIII 1957, 30 VIII 1957 B. 1 Mai 12 VIII 1958, Muz. Salonta 17 VIII 1960	NT
59.	6855	<i>Hyles galii</i> (Rottemburg 1775)	1	Oradea 8 VI 1963	VU
60.	6862	<i>Deilephila elpenor</i> (Linnaeus 1758)	1	-	NT
61.	6875	HESPERIOIDEA			
62.	6876	Hesperiidae			
63.	6877	Pyrginae			
64.	6879	<i>Erynnis tages tages</i> (Linnaeus 1758)	2	Băița-Ruginoasa 15 IV 1972 leg. Paina	
65.	6882	<i>Charcharodus alceae</i> (Esper 1780)	8 (I)	B. 1 Mai 17 VI 1958	
66.	6921	Hesperiinae			
67.	6924	<i>Thymelicus sylvestris</i> (Poda 1761)	1	-	NT

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	RL
68.	6930	<i>Ochlodes venatus</i> (Bremer & Grey 1853)	1	Răbăgani 2 VIII 1973 leg. Paina	
69.	6938	PAPILIONOIDEA			
70.	6939	Papilionidae			
71.	6940	Parnassiinae			
72.	*6953	<i>Parnassius mnemosyne</i> (Linnaeus 1758)	6	Oradea, pād. Paleu 10 V 1966, 13 V 1966, 15 V 1966	NT
73.	*6955	<i>Parnassius apollo</i> (Linnaeus 1758)	1	M. Tatra (Czech Republic) 20-25 VII 1968 leg. Paina	VU
74.	6956	Papilioninae			
75.	6958	<i>Ipliclides podalirius podalirius</i> (Linnaeus 1758)	1	P. Peța 31 VIII 1961	VU
76.	6963	Pieridae			
77.	6964	Dismorphiinae			
78.	6966	<i>Leptidea sinapis sinapis</i> (Linnaeus 1758)	2♂♂ 1♀ 1♂ 2♂♂ 1♀	V. Popii 21 VIII 1961 leg. Racovița Oradea, pād. Paleu 13 V 1966 Băița-Ruginoasa 15 IV 1972 leg. Paina - -	
79.	6970	Pierinae			
80.	6973	<i>Anthocharis cardamines</i> (Linnaeus 1758)	2♂♂	-	
81.	6993	<i>Aporia crataegi crataegi</i> (Linnaeus 1758)	1 (l) 37 (l) 13 (n) 1 (n) 4 1 -	B. 1 Mai 17 VI 1958 - B. 1 Mai 22 V 1958, 12 VIII 1958 - B. 1 Mai 13 V 1958, Pād. Săldăbagiu 22 V 1966, Salonta 1 VI 1960 -	NT
82.	6994	<i>Pieris sp.</i>	2	-	
83.	6998	<i>Pieris rapae</i> (Linnaeus 1758)	4♂♂ 6♀♀ 1♀	Bohodei 11 VIII 1973 leg. Paina, D. Șomleu 30 VIII 1961, P. Peța 1 IX 1961 Cetățile Rădesei 27 VII 1967 leg. Paina, Oradea 29 VII 1957, Muz. Salonta 1 VIII 1960, P. Peța 1 IX 1961 -	
84.	7000	<i>Pieris napi napi</i> (Linnaeus 1758)	12♂♂ 1♂ 1♀	V. Bulz 6 VII 1973 leg. Paina, Răbăgani 26 VII 1973 leg. Paina, Cetățile Rădesei 27 VII 1967 leg. Paina, Muz. Salonta 1 VIII 1960, Răbăgani 2 VIII 1973 leg. Paina, Bohodei 11 VIII 1973 leg. Paina, V. Leșului 17 VIII 1971 leg. Paina, Oradea 30 VIII 1957 - B. 1 Mai 4 VII 1958, Răbăgani 26 VII 1973 leg. Paina	
85.	7004	<i>Pontia edusa</i> (Fabricius 1777)	4♂♂ 5♀♀	D. Craiului 4 IX 1961 leg. Racovița, D. Șomleu 7 IX 1961 leg. Racovița P. Peța 31 VIII 1961, 1 IX 1961 leg. Racovița, D. Craiului 4 IX 1961 leg. Racovița	
86.	7009	Coliadinae			

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	R L
87.	7015	<i>Colias croceus</i> (Fourcroy 1785)	7♂♂ 2♀♀	V. Popii 21 VIII 1961, P. Pețea 1 IX 1961, D. Craiului 1 IX 1961, D. Șomleu 7 IX 1961, P. Pețea 31 IX 1961 D. Craiului 4 IX 1961	
88.	7021	<i>Colias hyale</i> (Linnaeus 1758)	4♂♂ 8♀♀	P. Pețea 31 VIII 1961, D. Craiului 4 IX 1961, D. Șomleu 7 IX 1961 V. Popii 21 VIII 1961, P. Pețea 31 VIII 1961, 1 IX 1961, D. Craiului 4 IX 1961, D. Șomleu 7 IX 1961	
89.	7024	<i>Gonepteryx rhamni rhamni</i> (Linnaeus 1758)	7♂♂ 1♂ 1♀ 1♀	Oradea, pād. Paleu 24 IV 1966, Pād. Săldăbagiu 1 VII 1956 leg. Perényi, 3 VII 1966, V. Popii 26 VIII 1961 - Pād. Săldăbagiu 3 VII 1966 -	
90.	7027	Lycaenidae			
91.	7031	Lycaeninae			
92.	7033	<i>Lycaena sp.</i>	1	B. 1 Mai 29 V 1958	
93.	7034	<i>Lycaena phlaeas phlaeas</i> (Linnaeus 1761)	3 1	V. Popii 26 VIII 1961 leg. Racoviță, D. Șomleu 30 VIII 1961 leg. Racoviță, P. Pețea 31 VIII 1961 leg. Racoviță -	
94.	7036	<i>Lycaena dispar rutila</i> (Werneburg 1864)	1♂ 1♀ 3♀♀	- V. Leșului 17 VIII 1971, leg. Paina -	VU
95.	7037	<i>Lycaena virgaureae virgaureae</i> (Linnaeus 1758)	5 3	V. Bulz 6 VII 1973 leg. Paina -	NT
96.	7043	<i>Lycaena thersamon</i> (Esper 1784)	2	D. Șomleu 30 VIII 1961 leg. Racoviță	VU
97.	7047	<i>Thecla betulae</i> (Linnaeus 1758)	1♀	D. Craiului 4 IX 1961 leg. Racoviță	NT
98.	7127	<i>Plebeius (Plebeius) argus argus</i> (Linnaeus 1758)	10♂♂ 2♀♀ 1♂ 1♀	Răbăgani 26 VII 1973, 2 VIII 1973 leg. Paina, V. Popii 26 VIII 1961, D. Șomleu 30 VIII 1961, P. Pețea 1 IX 1961, D. Craiului 4 IX 1961 P. Pețea 1 IX 1961, D. Craiului 4 IX 1961 - -	
99.	7163	<i>Polyommatus (Polyommatus) icarus</i> (Rottemburg 1775)	7♂♂ 6♀♀	V. Popii 26 VIII 1961, D. Șomleu 30 VIII 1961, P. Pețea 31 VIII 1961, 1 IX 1961, D. Craiului 4 IX 1961 V. Popii 26 VIII 1961, P. Pețea 1 IX 1961, D. Craiului 4 IX 1961, D. Șomleu 7 IX 1961	
100.	7172	<i>Polyommatus (Meleageria) bellargus</i> (Rottemburg 1775)	1♂ 1♂	D. Șomleu 30 VIII 1961 -	NT
101.	7196	Nymphalidae			
102.	7200	Heliconiinae			
103.	7202	<i>Argynnis paphia paphia</i> (Linnaeus 1758)	4♂♂ 4♀♀	B. 1 Mai 4 VII 1958, 1 VIII 1958, Băița 21-24 VII 1966 leg. Paina B. 1 Mai 6 VIII 1956 leg. Perényi	NT

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	R L
104.	7204	<i>Argynnis aglaja</i> (Linnaeus 1758)	3	Băița 21-24 VII 1966 leg. Paina, V. Leșului 17 VIII 1971 leg. Paina	
105.	7214	<i>Brenthis daphne</i> (Denis & Schiffermüller 1775)	1 ♂	-	VU
106.	7222	<i>Boloria (Clossiana) selene</i> (Denis & Schiffermüller 1775)	1	-	NT
107.	7228	<i>Boloria (Clossiana) dia dia</i> (Linnaeus 1767)	3	V. Popii 26 VIII 1961, P. Pețea 31 VIII 1961	
108.	7240	<i>Nymphalinae</i>			
109.	7243	<i>Vanessa atalanta</i> (Linnaeus 1758)	1 ♂ 1 ♀	Oradea, păd. Paleu 7 VII 1966 Oradea, păd. Paleu 7 VII 1966	
110.	7245	<i>Vanessa cardui</i> (Linnaeus 1758)	3 1	B. 1 Mai 21 VII 1958, Băița 21-24 VII 1966 leg. Paina - det. A. Popescu-Gorj	
111.	7248	<i>Inachis io</i> (Linnaeus 1758)	6 (l) 11 (l) 3 (n) 9 2	Sămbăta 4 VI 1958, 6 VI 1958, B. 1 Mai 11 VI 1958 - B. 1 Mai 18 VI 1958 Băița-Ruginoasa 15 IV 1972 leg. Paina, B. 1 Mai 11-26 (?) VI 1958, Păd. Săldăbagiu 3 VII 1966, Băița 21-24 VII 1966 leg. Paina, Oradea 12 VIII 1957, X 1978 -	
112.	7250	<i>Aglais urticae</i> (Linnaeus 1758)	3	Bohodei 11 VIII 1973 leg. Paina	NT
113.	7252	<i>Polygonia c-album</i> (Linnaeus 1758)	5	Băița-Ruginoasa 15 IV 1972 leg. Paina, Oradea, păd. Paleu 7 VII 1966, Peșt. Focul Viu 18 VII 1969, V. Leșului 17 VIII 1971 leg. Paina	NT
114.	7255	<i>Araschnia levana</i> (Linnaeus 1758)	2	Băița-Ruginoasa 15 IV 1972 leg. Paina	NT
115.	7257	<i>Nymphalis antiopa</i> (Linnaeus 1758)	1	B. 1 Mai 4 VII 1958	VU
116.	7275	<i>Melitaea didyma didyma</i> (Esper 1778)	1 ♀	B. 1 Mai 1 VIII 1958	
117.	7280	<i>Melitaea aurelia aurelia</i> Nickerl 1850	2	V. Popii 26 VIII 1961	VU
118.	7283	<i>Melitaea athalia athalia</i> (Rottemburg 1775)	1 ♀ 14	D. Șomleu 30 VIII 1961 B. 1 Mai 8 V 1966, 13 V 1958, 12 VIII 1958, V. Bulz 6 VII 1973 leg. Paina, D. Șomleu 30 VIII 1961	
119.	7284	<i>Limnitiinae</i>			
120.	*7290	<i>Neptis sappho</i> (Pallas 1771)	1	B. 1 Mai 21 VII 1958	VU
121.	7295	<i>Apaturinae</i>			
122.	7298	<i>Apatura ilia ilia</i> (Denis & Schiffermüller 1775)	1 ♂	Oradea 24 VIII 1965	
123.	*7299	<i>Apatura iris</i> (Linnaeus 1758)	1	-	VU
124.	7300	<i>Satyrinae</i>			

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	R L
125.	7303	<i>Kirinia roxelana</i> (Cramer 1777)	1	Giurgiu (GR) (?) 23 VI det. T. Beloescu	EN
126.	7307	<i>Pararge aegeria</i> (Linnaeus 1758)	4 1	Băița-Ruginoasa 15 IV 1972 leg. Paina, V. Popii 21 VIII 1961 -	
127.	7309	<i>Lasiommata megera megera</i> (Linnaeus 1767)	2♂♂ 2♀♀ 1♀	D. Șomleu 30 VIII 1961, 7 IX 1961 Băița-Ruginoasa 15 IV 1972 leg. Paina, D. Șomleu 30 VIII 1961 -	
128.	7312	<i>Lasiommata maera maera</i> (Linnaeus 1758)	2 1	Răbăgani 26 VII 1973 leg. Paina, V. Popii 26 VIII 1961 -	
129.	7326	<i>Coenonympha glycerion glycerion</i> (Borkhausen 1788)	1♂ 1♀	B. 1 Mai 12 VIII 1958 D. Șomleu 30 VIII 1961	
130.	7334	<i>Coenonympha pamphilus</i> (Linnaeus 1758)	9 4	Șimian 21 VIII 1971 leg. Paina, D. Șomleu 30 VIII 1961, 7 IX 1961, D. Craiului 4 IX 1961 -	
131.	*7340	<i>Pyronia (Pyronia) tithonus tithonus</i> (Linnaeus 1767)	3♂♂ 5♀♀	Răbăgani 2 VIII 1973 leg. Paina, V. Popii 21 VIII 1961 V. Popii 21 VIII 1961, 26 VIII 1961	EN
132.	7344	<i>Aphantopus hyperantus</i> (Linnaeus 1758)	1 2	Păd. Săldăbagiu 3 VII 1966 -	
133.	7350	<i>Maniola jurtina jurtina</i> (Linnaeus 1758)	1♂ 17♀♀ 4♀♀	P. Pețea 30 VIII 1961 Păd. Săldăbagiu 5 VI 1966, 3 VII 1966, B. 1 Mai 4 VII 1958, 12 VIII 1958, Oradea, păd. Paleu 7 VII 1966, 1 VIII 1958, Rătu Florilor 13 VIII 1969 leg. Paina, V. Popii 26 VIII 1961, D. Șomleu 30 VIII 1961, D. Craiului 4 IX 1961 -	
134.	7359	<i>Erebia sp.</i>	4	V. Bulz 6 VII 1973 leg. Paina, Vf. Bihor 13 VII 1972 leg. Paina, Bohodei 11 VIII 1973 leg. Paina	
135.	7360	<i>Erebia ligea nikostrate</i> Fruhstorfer 1909	3 3	V. Găbena 11 VIII 1966 leg. Paina -	NT
136.	7361	<i>Erebia euryale</i> (Esper 1805)	5♂♂ 1♀	V. Bulz 6 VII 1973 leg. Paina, Vf. Biharia 13 VII 1972 leg. Paina, Cetățile Rădesei 27 VII 1967 leg. Paina, Bohodei 11 VIII 1973 leg. Paina Bohodei 11 VIII 1973 leg. Paina	NT
137.	7372	<i>Erebia aethiops aethiops</i> (Esper 1777)	2	-	NT
138.	7415	<i>Melanargia galathea</i> (Linnaeus 1758)	6 2	Păd. Săldăbagiu 3 VII 1966, B. 1 Mai 4 VII 1958, Oradea, păd. Paleu 7 VII 1966, Băița 21-24 VII 1966 leg. Paina -	
139.	7427	<i>Minois dryas</i> (Scopoli 1763)	3	B. 1 Mai 4 VIII 1958	NT
140.	7429	<i>Hypparchia fagi</i> (Scopoli 1763)	2♂♂	Păd. Săldăbagiu 3 VII 1966 det. I. Szabó	NT

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	R L
141	7436	<i>Hypparchia semele semele</i> (Linnaeus 1758)	1 ♀	D. Șomleu 30 VIII 1961	NT
142	7513	GEOMETROIDEA			
143	7514	Geometridae			
144	7520	Ennominae			
145	7522	<i>Abraxas grossulariata</i> (Linnaeus 1758)	1	Oradea, păd. Paleu 7 VII 1966	NT
146	7547	<i>Chiasmia clathrata</i> (Linnaeus 1758)	1 ♀	Muz. Salonta 29 VI 1960	
147	7613	<i>Opisthographis luteolata</i> (Linnaeus 1758)	1	Oradea, păd. Paleu 24 IV 1966	
148	7620	<i>Pseudopanthera macularia</i> (Linnaeus 1758)	1 3	V. Bulz 6 VII 1973 leg. Paina -	
149	7632	<i>Ennomos autumnaria</i> (Werneburg 1859)	1	Salonta 13 VIII 1962	
150	7783	<i>Hypomecis roboraria</i> (Denis & Schiffmüller 1775)	1	Muz. Salonta 21 VII 1960	
151	7804	<i>Ematurga atomaria atomaria</i> (Linnaeus 1758)	2	Băița-Ruginoasa 15 IV 1972 leg. Paina	
152	8010	Sterrhinae			
153	8019	<i>Cyclophora porata</i> (Linnaeus 1767)	2	Băița-Ruginoasa 15 IV 1972 leg. Paina	
154	8028	<i>Timandra comae</i> A. Schmidt 1931	1 1	Muz. Salonta 15 VII 1960 -	
155	8086	<i>Idaea sp.</i>	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
156	8184	<i>Idaea aversata aversata</i> (Linnaeus 1758)	1	Muz. Salonta 29 VI 1960	
157	8216	Larentiinae			
158	8239	<i>Scotopteryx chenopodiata</i> (Linnaeus 1758)	1	-	
159	8268	<i>Catarhoe rubidata</i> (Denis & Schiffmüller 1775)	1	Muz. Salonta 20 VII 1960	NT
160	8411	<i>Melanthia procellata</i> (Denis & Schiffmüller 1775)	3	-	
161	8685	NOCTUOIDEA			
162	8686	Notodontidae			
163	8702	Notodontinae			
164	8704	<i>Cerura vinula</i> (Linnaeus 1758)	1 (l)	B. 1 Mai 17 VI 1958	NT
165	8710	<i>Furcula bifida bifida</i> (Brahm 1787)	2 (l)	B. 1 Mai 15 VII 1958	
166	8715	<i>Notodonta sp.</i>	1	Oradea, D. Măței 7 V 1966	
167	8756	Heterocampinae			
168	8762	<i>Spatalia argentina</i> (Denis & Schiffmüller 1775)	1	Muz. Salonta 20 VII 1960	
169	8763	Noctuidae			
170	8764	Acronyctinae			
171	8777	<i>Acronycta psi psi</i> (Linnaeus 1758)	1	Ștei 29 VII 1958	
172	8795	Bryophilinae			

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	R L
173.	8810	<i>Cryphia raptricula</i> (Denis & Schiffermüller 1775)	1	Muz. Salonta 20 VII 1960	
174.	8869	Catocalinae			
175.	8870	<i>Catocala</i> sp.	1 2	Oradea 3 IX 1974 leg. Paina -	
176.	8871	<i>Catocala sponsa</i> (Linnaeus 1767)	1	-	NT
177.	8877	<i>Catocala elocata elocata</i> (Esper 1787)	1	-	NT
178.	8883	<i>Catocala electa electa</i> (Vieweg 1790)	1	Salonta 13 VIII 1962	VU
179.	8957	<i>Aedia</i> sp.	1	-	
180.	8982	Calpinae			
181.	8984	<i>Scoliopteryx libatrix</i> (Linnaeus 1758)	1	Peșt. Devențului 27 III 1953 leg. Jurcsák	
182.	9025	Plusiinae			
183.	9051	<i>Macdunnoughia confusa confusa</i> (Stephens 1850)	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
184.	9052	<i>Plusia</i> sp.	2	Răbăgani 2 VII 1973 leg. Paina, Muz. Salonta 20 VII 1960	
185.	9056	<i>Autographa gamma</i> (Linnaeus 1758)	2	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
186.	9302	Amphipyridae			
187.	9307	<i>Amphipyra pyramidea</i> (Linnaeus 1758)	1	Păd. Săldăbagiu 25 VII 1957	
188.	9389	Ipimorphinae			
189.	9433	<i>Paradrina clavipalpis</i> (Scopoli 1763)	1	Muz. Salonta 29 VI 1960	
190.	9501	<i>Trachea atriplicis</i> (Linnaeus 1758)	1	Muz. Salonta 3 VIII 1960	
191.	9389	Hadeninae			
192.	9912	<i>Lacanobia (Lacanobia) w-latunum</i> (Hufnagel 1766)	1	Oradea 9 VII 1966	
193.	9917	<i>Lacanobia (Diataraxia) oleracea</i> (L. 1758)	3	Oradea 23 V 1966, Păd. Săldăbagiu 19 VI 1966, Muz. Salonta 21 VII 1960	
194.	9928	<i>Hecatera bicolorata</i> (Hufnagel 1766)	1	Muz. Salonta 21 VII 1960	
195.	9987	<i>Mamestra brassicae</i> (Linnaeus 1758)	1	Oradea 24 VIII 1973 leg. Paina	
196.	10003	<i>Mythimna (Mythimna) vitellina</i> (Hübner 1808)	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
197.	10009	<i>Leucania</i> sp.	1	Oradea, D. Măței 23 V 1966	
198.	10022	<i>Mythimna (Hyphilaria) l-album</i> (Linnaeus 1767)	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
199.	10080	Noctuinae			
200.	10199	<i>Xestia c-nigrum</i> (Linnaeus 1758)	2	Oradea 24 VIII 1973 leg. Paina, C. A. Rosetti (TC) 27 IX 1980 leg. Paina	
201.	10278	<i>Euxoa segnalis</i> (Duponchel 1836)	1	C. A. Rosetti (TC) 27 IX 1980 leg. Paina	DD
202.	10333	<i>Agrotis</i> sp.	2	Oradea 24 VIII 1973 leg. Paina	
203.	10356	<i>Agrotis vestigialis</i> (Hufnagel 1766)	2♂♂ 1♂	C. A. Rosetti (TC) 27 IX 1980 leg. Paina -	NT
204.	10373	Lymantriidae			

Table 1. continued

Nr	K & R	Taxa	Spec.	Collection data	R L
205	10375	<i>Lymantria monacha</i> (Linnaeus 1758)	1 ♂	Băița 21-22 VII 1966 leg. Paina	
206	10376	<i>Lymantria dispar</i> (Linnaeus 1758)	1 ♂ 1 ♀	Sf. Gheorghe (TC) 5 VII 1983 leg. & det. Fr. König Cefa	
207	10405	<i>Euproctis chrysorrhoea</i> (Linnaeus 1758)	1 1	B. 1 Mai 25 VI 1958 -	
208	10406	<i>Euproctis similis</i> (Fuessly 1775)	1 (l)	B. 1 Mai 16 VI 1958	
209	10408	<i>Pentopthera morio</i> (Linnaeus 1767)	1	Păd. Săldăbagiu 5 VI 1966	NT
210	10461	Arctiidae			
211	10462	Lithosiinae			
212	10485	<i>Lithosia quadra</i> (Linnaeus 1758)	2	-	
213	10499	<i>Eilema sororcula</i> (Hufnagel 1766)	1	Muz. Salonta 20 VII 1960	
214	10515	Syntominiinae			
215	10517	<i>Amata phegea</i> (Linnaeus 1758)	5	Păd. Săldăbagiu 19 VI 1966, Vadu Crișului 5 VII 1974 leg. Paina, Oradea, păd. Paleu 7 VII 1966, Oradea 18 VIII 1953 leg. Galamb	
216	10521	<i>Dysauxes ancilla</i> Hübner 1819	1	C. A. Rosetti (TC) 12 IX 1979 leg. Paina, det. A. Popescu-Gorj	
217	10524	Arctiinae			
218	10526	<i>Spiris striata</i> (Linnaeus 1758)	1	-	NT
219	10567	<i>Spilosoma lubricipeda</i> (Linnaeus 1758)	5 1	Oradea 7 V 1966, Muz. Salonta 21 VII 1960, B. 1 Mai 29 VII 1958 -	
220	*10570	<i>Hyphantria cunea</i> (Drury 1773)	1 ♂ 7 ♀ ♀	Sulina (TC) 1 VI 1980 leg. Paina Sulina (TC) 1 VI 1980 leg. Paina, Oradea 15 VI 1983 leg. & det. Paina	
221	10598	<i>Arctia caja</i> (Linnaeus 1758)	1 (l) 1	B. 1 Mai 17 VI 1957 Oradea 20 VII 1953 leg. Galamb	
222	10600	<i>Arctia villica</i> (Linnaeus 1758)	1	Muz. Salonta	
223	10605	<i>Euplagia quadripunctaria</i> (Poda 1761)	1	B. 1 Mai 6 VIII 1956 leg. Perényi	
224	10607	<i>Tyria jacobaeae</i> (Linnaeus 1758)	1 (l)	B. 1 Mai 7 VI 1958	VU