

NEW DATA REGARDING THE DIVERSITY OF THE SATYRINAE SUBFAMILY (INSECTA: LEPIDOPTERA: NYMPHALIDAE) FROM THE OLTENIA FAUNA, ROMANIA

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Abstract. This paper updates the state of the knowledge of the Satyrinae diversity and distribution in the Oltenia fauna. The paper synthesizes data from papers published during 1929-2008 regarding the presence of the Satyrinae in the Oltenia fauna and scientifically presents the data held by the specimens of the Satyrinae preserved in the entomological heritage of the Oltenia Museum from Craiova. The analysed specimens were collected during 1951-2010. We have identified 107 collection sites, from which 98 located in the 5 counties of Oltenia. From the 48 species and subspecies of Satyrinae mentioned in the Romanian Fauna, 32 have been identified in the Oltenia fauna. From those, 25 species are preserved in the museum heritage. The obtained data reconfirm the presence and the continuity of these species in the Oltenia fauna and also shows the great diversity of Satyrinae in this area.

Keywords: new data, diversity, Satyrinae, Oltenia, Romania.

Rezumat. Noi date privind diversitatea subfamiliei Satyrinae (Insecta: Lepidoptera: Nymphalidae) în fauna Olteniei, România. Lucrarea actualizează stadiul cunoașterii diversității și distribuției satirinelor în fauna Olteniei. Ea sintetizează date din literatura de specialitate referitoare la prezența satirinelor în fauna Olteniei, publicată în perioada 1929-2008 și valorifică științific datele deținute de exemplarele de satirine conservate în patrimoniul Muzeului Olteniei Craiova. Exemplarele analizate au fost colectate în perioada anilor 1951-2010. Au fost identificate 107 situri de colectare, din care 98 situate în cele 5 județe ale Olteniei. Din cele 48 de specii și subspecii de satirine menționate în fauna României, 32 au fost identificate în fauna Olteniei. Dintre acestea, 25 de specii sunt conservate în patrimoniul muzeului. Datele obținute reconfirmă prezența și continuitatea prezenței speciilor în fauna Olteniei și atestă marea diversitate a satirinelor în această zonă.

Cuvinte cheie: date noi, diversitate, Satyrinae, Oltenia, România.

INTRODUCTION

The paper continues the scientific presentation of the lepidopteran species (Satyrinae subfamily) from the entomological heritage of the Natural Sciences Department of the Oltenia Museum from Craiova.

The main purpose of this paper is to continue the publication of the lepidopteran data in order to enrich the knowledge about the diversity and distribution of the lepidopteran fauna of Oltenia. This paper also completes the data from the last two synthesis papers on the lepidopterans from Romania (RAKOSY et al., 2003; SZÉKELY, 2008), as data regarding the presence of the lepidopterans in the fauna of Oltenia are not mentioned.

The lepidopteran species from the entomological heritage of the museum, published by now are those from:

- the purchased collections: "Mihai Peiu" (CHIMIȘLIU, 1989) and "Ion Firu" (CHIMIȘLIU, 1996, 2006);
- from the donation "Ion Stănoiu" (CHIMIȘLIU & GOGA, 2005).

- the collections made by the museum specialists: species from the Papilionidae family (CHIMIȘLIU, 2008), the Pieridae family (CHIMIȘLIU, 2009), the Sphingidae family (CHIMIȘLIU, 2010), and the Nymphalidae family (pars) (CHIMIȘLIU, 2011).

MATERIAL AND METHODS

The paper is based on data from both papers published during 1929-2008 (MARCUS, 1929; KÖNIG, 1953; ALESINSCHI & PEIU, 1954; POPESCU-GORJ, 1955; BOBÎRNAC, 1962; ALESINSCHI & KÖNIG, 1963; BOBÎRNAC & SANDA, 1964; BOBÎRNAC et al., 1966, 1969, 1970, 1971; BOBÎRNAC & STĂNOIU, 1967; STĂNOIU & BOBÎRNAC, 1965; STĂNOIU et al., 1973, 1978; BOBÎRNAC & MATEI, 1983; RAKOSY et al., 2003; CHIMIȘLIU & GOGA, 2005; CHIMIȘLIU, 2006; SZÉKELY, 2008) and on the data preserved in the entomological heritage of the museum.

The analysed specimens came from the collections made by the specialists of the Natural Sciences Department of the Oltenia Museum from Craiova.

The species were determined and revised over the years by I. Firu, Fr. König, A. Popescu-Gorj, and Cornelia Chimișliu. For the last determinations and revisions we received the help of Mrs. Dr. Silvia Burnaz and we would like to thank her for this. In order to determine and revise the species, we used the following papers: LAMPERT (1923) POPESCU-GORJ (1955), STĂNOIU et al. (1979), and SZÉKELY (2008).

The nomenclature and the taxonomy of species used in the paper are consistent with the taxonomic system of Fauna Europaea and partially RAKOSY (2007).

For each species we mention: previous reports in literature (in chronological order of the publishing date of the papers, indicating the collecting sites and the collecting years), the analysed material, the number of specimens. The collecting sites are presented in alphabetical order, and the collecting dates in the chronological order of the years and months of collecting. We also mention the protective status under the IUCN and community legislation.

Abbreviations:

- **County names:** BV - Brașov; CS – Caraș Severin; CT – Constanța; DJ – Dolj; GJ – Gorj; HD – Hunedoara; HR – Harghita; MH – Mehedinți; OT – Olt; TL – Tulcea; SB – Sibiu; VL – Vâlcea;

- **Protection status** (after SZÉKELY, 2008): EX=Extinct; CR=Critically endangered; EN=Endangered; VU=Vulnerable; NT=Near threatened; LC=Least concern;

- **Legislation:** R.D.B.E.D. = The Red Data Book of European Butterflies (VAN SWAY and WARREN, 1999); HD. 3B, 4B = Fauna-Flora-Habitat Directive (FFH) Annex 3B and Annex 4B;

- **Collectors' name:** B.E. - Bazilescu Elena; C.C. - Chimișliu Cornelia; F.G. - Filcu Gheorghita; F.I. - Firu Ion; L.N. - Lila Narcisa; N.A. - Năstase Adrian; P.G. - Păduraru Galina; P.I. - Păunescu Irina; P.M. - Popescu Mircea; V.A. - Vișan Aneta;

- **Other abbreviations:** Mts. = Mountains; Mt. = Mountain; Ms. = Massif; spec. = specimen; specs. = specimens.

RESULTS AND DISCUSSIONS

After processing the material, we have identified 107 collecting sites, of which 98 are located in the 5 counties of Oltenia: Dolj (42), Gorj (30), Vâlcea (17), Mehedinți (6), and Olt (3), and 9 are from another 7 counties of Romania: BV (2), CS (2), CT (1), HD (1), HR (1), TL (1), and SB (1). Of the 98 sites from Oltenia, 43 are newly identified, 9 have been found again in the consulted literature (Baia de Fier, Bistreț, Bucovăț, Cheile Sohodol, Craiova, Ișalnița, Leamna, Polovragi, Râncea), and 46 are sites previously mentioned in literature and not found again in the analysed material from the museum's heritage.

Collecting sites:

- | | |
|---|---|
| 1. Baia de Aramă (MH) | 40. Domogled (CS) |
| 2. Baia de Fier (GJ) | 41. Drobeta Turnu Severin (MH) |
| 3. Balota (MH) | 42. Făgăraș (BV) |
| 4. Balș (OT) | 43. Filiași (DJ) |
| 5. Banu Măracine (DJ) | 44. The Gilort Valley (GJ) |
| 6. Băile Herculane (CS) | 45. Grădiștea (OT) |
| 7. Berbești (VL) | 46. Gogoșu (DJ) |
| 8. Bibești (GJ) | 47. Ișalnița (DJ) |
| 9. Bistreț (DJ) | 48. The Jiu Meadow (DJ) |
| 10. Borsec (HR) | 49. Leamna (DJ) |
| 11. Braniște (DJ) | 50. Licurici (DJ) |
| 12. Bratovoști (DJ) | 51. Lotru Massif (VL) |
| 13. Bucovăț (DJ) | 52. The Lotru Valley (VL) |
| 14. The Bucovăț Forest (DJ) | 53. Mamaia (CT) |
| 15. Bugiulești (VL) | 54. Mândra Peak (Parâng Mts.) (GJ) |
| 16. Caraorman (TL) | 55. Mischii (DJ) |
| 17. Călimănești (VL) | 56. Mofleni (DJ) |
| 18. Căpreni (GJ) | 57. Negoi (DJ) |
| 19. Călcescu Lake (GJ) | 58. Novaci (GJ) |
| 20. Câmpușel (HD) | 59. Obârșia Lotrului (VL) |
| 21. Cernele Forest (DJ) | 60. Ocnele Mari (VL) |
| 22. Cireșu (MH) | 61. Ocnița (VL) |
| 23. Cârja Peak (Parâng Mts.) (GJ) | 62. Olănești (VL) |
| 24. Cobia Forest (DJ) | 63. The Oltului Valley (VL) |
| 25. Coțofeni (DJ) | 64. Orșova (MH) |
| 26. Coțofenii din Față (DJ) | 65. The Oslea Peak (GJ) |
| 27. Corabia (OT) | 66. Oveselu (VL) |
| 28. The Cozia Mountain (VL) | 67. The Palilula Forest (DJ) |
| 29. Craiova (DJ) | 68. Parâng (chalet) Parâng (surroundings of Parâng chalet) (GJ) |
| 30. Craiova (Depou) (DJ) | 69. The Parâng Mountains (GJ) |
| 31. Craiova (Botanical Garden) DJ | 70. Parâng Peak (GJ) |
| 32. Craiova (Meadow) (DJ) | 71. Păpușa Peak (Parâng Mts.) (GJ) |
| 33. Craiova (Obedeau) (DJ) | 72. The Păușa Valley (VL) |
| 34. Craiova (Park) (DJ) | 73. Perișor (DJ) |
| 35. Craiova (The Gang Valley) (DJ) | 74. Perișor Forest (DJ) |
| 36. The Cușalitrău Cave (GJ) | 75. Piatra Cloșani (GJ) |
| 37. Dăbuleni (DJ) | 76. Pietrele Albe (GJ) |
| 38. Desa (DJ) | 77. Pisculeț (DJ) |
| 39. Dobromira (DJ) | 78. Plenița (DJ) |

79. Pociovaliștea (GJ)
 80. **Poiana Stampei** (GJ)
 81. Poiana Stânei (BV)
 82. Polovragi (GJ)
 83. **Racovița** (VL)
 84. **Răcari** (DJ)
 85. Râncea (GJ)
 86. Râncea (Păpușa) (GJ)
 87. Roaba Forest (DJ)
 88. **Rojiște** (DJ)
 89. Sadu (SB)
 90. **Săcelu** (GJ)
 91. **Seaca** (VL)
 92. **Secui** (DJ)
 93. **Segarcea** (DJ)
 94. The Sohodol Gorges (GJ)
 95. **Straja-Vâlcă**n (GJ)
 96. Strehaia (MH)
 97. Șimnic (DJ)
 98. Tidvele (Parâng) (GJ)
 99. **Tismăna** (GJ)
 100. Tâmburești (DJ)
 101. Târgu Jiu (GJ)
 102. **Târgul Logrești** (GJ)
 103. Turcinești (GJ)
 104. Valea Satului (The Massif Lotru) (VL)
 105. **Vâlcă**n Mountains (GJ)
 106. **Vâlcă**com (DJ)
 107. Voineasa (VL)

Note: The sites in bold are new; the lowercase ones are old or re-found sites.

Of the 48 species and subspecies mentioned in the fauna of Romania by SZÉKELY (2008), for the subfamily Satyrinae, 32 species were identified in the Oltenia fauna. In the museum heritage it is also preserved a specimen of the form *Melanargia galathea* f. *leucomelas*.

The taxonomic classification of the species is presented in Table 1.

Table 1. The taxonomic distribution of the analysed species in the subfamilies.

Tabel 1. Repartizarea taxonomică a speciilor în cadrul subfamiliilor.

No.	Tribe	No. of genera	No. of species and subspecies	No. of specimens
1.	Coenonymphini	1	4	57
2.	Elymniini	4	5	29
3.	Erebiini	1	10	31
4.	Maniolini	4	5	173
5.	Melanargiini	1	1	60
6.	Satyrini	5	7	29
Total	6	18	32	379

The identified species list:

SUBFAMILY SATYRINAE

Tribe Coenonymphini

Genus *Coenonympha* HUBNER 1819

C. arcania (LINNAEUS 1761)

Previous reports from the Oltenia fauna: MARCU, 1929 - Piatra Cloșani (1928); STĂNOIU et al., 1978 – Bucovăț forest and Cobia forest (1977); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Călimănești (1963).

Examined material - 2 specs.: The Sohodol Gorges 1 spec. July 20, 1999 C.C.; Coțofeni 1 spec. June 26, 1996 C.C.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania, except the Danube Delta (SZÉKELY, 2008).

This species was mentioned for the first time in Oltenia by Marcu (1929), with 52 years prior to its mention by RAKOSY et al. (2003).

C. glycerion (BORKHAUSEN 1788)

Previous reports from the Oltenia fauna: STĂNOIU et al., 1978 – The Păușa Valley (1977); CHIMIȘLIU & GOGA, 2005 - Călimănești (1964), Ocelele Mari (1964), Baia de Aramă (1967); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU, 2006 - Perișor (1976).

Examined material - 12 specs.: Bucovăț 1 spec. July 25, 1979 P.I.; 2 specs. August 3, 1981 C.C.; Negoii 5 specs. August 3, 1998 V.A.; Răcari 4 specs. July 27, 1998 C.C.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania except the Danube Delta (SZÉKELY, 2008).

The first specimens preserved in the museum heritage are from 1961, 17 years prior to those mentioned by RAKOSY et al. (2003).

C. leander (ESPER 1784)

Previous reports from the Oltenia fauna: RAKOSY et al., 2003 (Oltenia 1901-1980).

Examined material - 2 specs.: The Sohodol Gorges June 28, 2000 C.C.

Protection status: EN (SZÉKELY, 2008).

Distribution: Southern Banat (SZÉKELY, 2008).

The species was mentioned by RAKOSY et al. (2003) for the period 1981-2001. Our data confirm also the presence of these species in the Northern Oltenia after 1980.

C. pamphilus (LINNAEUS 1758)

Previous reports from the Oltenia fauna: ALEXINSCHI & PEIU, 1954 - Roaba Forest; ALESINSCHI & KONIG, 1963 - The Parâng Mountains (1952); STĂNOIU & BOBÎRNAC, 1965 - Novaci (1957); BOBÎRNAC et al., 1970 - Craiova (1957); STĂNOIU et al., 1978 - Sadu (1976); BOBÎRNAC & MATEI, 1983 - Tâmburești and Banu Măracine (1976-1982); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Balș (1968), Călimănești (1963), Corabia (1970), Craiova (1963, 1964), Filiași (1962); CHIMIȘLIU, 2006 - Bugiulești (1964), Craiova (1964), Novaci (1963), Turcinești (1968).

Examined material - 41 specs.: Baia de Fier 2 specs. May 23, 1951 I.F.; 2 specs. May 11, 1958 I.F.; Bistreț 1 spec. June 2, 1982 C.C.; Bucovăț 1 spec. May 23, 1983 N.A.; 1 spec. June 12, 1983 V.A.; 1 spec. August 12, 1983 V.A.; 1 spec. July 3, 1997 F.G.; Căpreni 2 specs. June 13, 1967 B.E.; 1 spec. June 16, 1967 B.E.; The Sohodol Gorges 3 specs. July 21, 1995 C.C.; 1 spec. July 26, 1996 C.C.; 1 spec. July 16, 1999 C.C.; Coțofenii din Față 4 specs. May 26, 1996 C.C.; 1 spec. May 18, 1997 C.C.; Craiova (Depot) 2 specs. May 23, 1983 N.A.; Craiova (Meadow) 1 spec. August 13, 1966 P.M.; Craiova (Gang Valley) 1 spec. May 1, 1983 N.A.; Desa 2 specs. July 25, 1989 C.C.; Mamaia 1 spec. July 16, 1991 C.C.; Mofleni 2 specs. August 22, 1968 B.E.; Očnița 1 spec. August 15, 1998 C.C.; Oveselu 2 specs. October 5, 1966 B.E.; Plenița 1 spec. July 1, 1984 C.C.; Răcari 1 spec. May 18, 1996 C.C.; Rânca 1 spec. August 4, 1987 leg. C.C.; Secui 2 specs. June 10, 2010.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania, (SZÉKELY, 2008).

The species was mentioned by RAKOSY et al. (2003) for the period 1981-2001, even though the first mention of the species was made by ALEXINSCHI & PEIU (1954). Our data certify the presence of this species in Oltenia starting from 1951 until 2010.

Tribe Elymniini

Genus *Kirinia* MOORE 1893

K. roxelana (CRAMER 1777)

Previous reports from the Oltenia fauna: KÖNIG, 1953 - Orșova (1936); RAKOSY et al., 2003 (Oltenia 1901-1980), CHIMIȘLIU & GOGA, 2005 - Ocnele Mari (1964, 1973).

Protection status: EN (SZÉKELY, 2008).

Protected species: R.D.B.E.B., HD. 3B, 4B (SZÉKELY, 2008).

Distribution: The South of Banat and Oltenia, Dobrogea (SZÉKELY, 2008).

The species was not found in the analysed material.

Genus *Lasiommata* WESTWOOD 1841

L. maera (LINNAEUS 1758)

Previous reports from the Oltenia fauna: STĂNOIU & BOBÎRNAC, 1965 - Novaci (1957); STĂNOIU et al., 1978 - Sadu (1977) and Leamna (1976); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Craiova (1964).

Examined material - 6 specs.: Bucovăț 1 spec. June 03, 1981 C.C.; Coțofeni 1 spec. May 18, 1997 C.C.; Ișalnița 1 spec. May 26, 1999 C.C.; Leamna 1 spec. May 16, 1969 P.M.; Pietrele Albe 1 spec. August 3, 1996 P.A.; Răcari 1 spec. July 27, 1998 C.C.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania (SZÉKELY, 2008).

RAKOSY et al. (2003) mention the presence of the species in Oltenia between 1981 and 2001, but it was collected in 1957 (STĂNOIU & BOBÎRNAC, 1965) and has been present in the museum heritage since 1969.

L. megera (LINNAEUS 1767)

Previous reports from the Oltenia fauna: ALESINSCHI & PEIU (1954) - Roaba Forest (1952); STĂNOIU & BOBÎRNAC, 1965 - Pociovașiștea (1957); BOBÎRNAC et al., 1966 - Cireșu (1964); STĂNOIU et al., 1973 - Grădiștea (VL); STĂNOIU et al., 1978 - Sadu (1976); RAKOSY et al., 2003 (Oltenia 1981-2001); CHIMIȘLIU & GOGA, 2005 - Craiova (1964), Poiana Stănei (1966), Ișalnița (1967); CHIMIȘLIU, 2006 - Bugiulești (1964), Craiova (1964, 1965), Novaci (1963).

Examined material - 9 specs.: Bibești 1 spec. July 7, 1977 B.E.; Bratovoiești 1 spec. June 17, 2008 B.L.; Bucovăț 1 spec. June 19, 1968 P.I.; Craiova 1 spec. August 5, 1951 F.I.; Craiova (Park) 1 spec. May 20, 1982 V.A.; Mamaia 2 specs. August 15, 1991 C.C.; Mofleni 1 spec. June 17, 1968 P.M.; Rânca 1 spec. July 23, 1982 V.A.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania, except Dobrogea (SZÉKELY, 2008).

RAKOSY et al. (2003) mention the presence of this species in Oltenia between 1981 and 2001, but it was previously mentioned in 1954 (ALESINSCHI & PEIU, 1954). Our data show the existence of this species in Oltenia also after the period mentioned by RAKOSY et al. (2003), the last collection being made in 2008.

Genus *Pararge* HUBNER 1819***P. aegeria* LINNAEUS 1758**

Previous reports from the Oltenia fauna: ALESINSCHI & PEIU (1954) - Roaba Forest; ALESINSCHI & KONIG (1963) - Valea Satului (1951) and Cireșu (1951); STĂNOIU & BOBÎRNAC, 1965 - Novaci (1957); STĂNOIU et al., 1978 - common throughout Oltenia (1977); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005) - Craiova (1963); CHIMIȘLIU, 2006 - Bugiulești (1964).

Examined material - 14 specs.: Bucovăț 2 specs. June 15, 1968 P.I.; 1 spec. June 3, 1991 C.C.; The Sohodol Gorges 3 specs. August 5, 1992 C.C.; 1 spec. July 29, 1995 C.C.; 1 spec. August 5, 1996 C.C.; 1 spec. July 16, 1999 C.C.; Craiova 1 spec. July 13, 1970 P.I.; Craiova (Botanical Garden) 1 spec. June 20, 2005 B.L.; Pietrele Albe 1 spec. August 3, 1996 P.A.; Polovragi 1 spec. August 12, 1971 B.E.; Tismana 1 spec. August 23, 1992 C.C.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania except the Danube Delta (SZÉKELY, 2008).

RAKOSY et al. (2003) mention the presence of this species in Oltenia between 1981 and 2001, but it was previously mentioned in 1954 (ALESINSCHI & PEIU, 1954). Our data show the existence of this species in Oltenia also after the period mentioned by RAKOSY et al. (2003), the last collection being made in 2005.

Genus *Lopinga* MOORE 1893***L. achine* (SCOPOLI 1763)**

Previous reports from the Oltenia fauna: STĂNOIU & BOBÎRNAC, 1965 - The Gilort Valley (1957); STĂNOIU et al., 1978 - Târgu Jiu (1976); RAKOSY et al., 2003 - Oltenia (1901-1980).

Protection status: VU (SZÉKELY, 2008).

Distribution: Northern Oltenia, Northern Moldova, Northern Banat, Crișana, Transylvania, Satu Mare, Muntenia (SZÉKELY, 2008). The species misses from the museum heritage.

Tribe Erebiini**Genus *Erebia* DALMAN 1816*****E. aethiops* (ESPER 1777)**

Previous reports from the Oltenia fauna: MARCU, 1929 - Oslea Peak, Piatra Cloșani (1928); POPESCU-GORJ, 1955 - Parâng Peak (1952), Valea Satului (1952), Voineasa (1952); ALESINSCHI & KÖNIG (1963) - Lotru Massif (1952); RAKOSY et al., 2003 - Oltenia (1901-1980); CHIMIȘLIU & GOGA, 2005 - Călimănești (1966, 1969).

Examined material 14 - specs.: Borsec 1 spec. August 6, 1958 F.I.; Câmpușel 1 spec. July 27, 1982 P.I.; The Sohodol Gorges 1 spec. July 23, 1982 P.I.; 1 spec. July 16, 1999 C.C.; 1 spec. August 11, 2004 L.N.; Craiova 2 specs. August 3, 1958 P.I.; Vâlcan Mountains 5 specs. August 9, 1991 V.A.; 2 specs. July 30, 1980 N.A.

Protection status: LC (SZÉKELY, 2008).

Distribution: Northern Oltenia, Transylvania, Maramureș, Southern Banat, Western Moldova (SZÉKELY, 2008).

RAKOSY et al. (2003) mention the presence of this species in Oltenia between 1981 and 2001, in the consulted literature, the first mention of this species dates from 1928 (MARCUS, 1929). Our data show the existence of this species in Oltenia also after the period mentioned by RAKOSY et al. (2003), the last collection being made in 2004.

***E. epiphron transsylvanica* (REBEL 1908)**

Previous reports from the Oltenia fauna: ALESINSCHI & KÖNIG (1963) - Călcescu Lake, Mândra Peak, Cârja and Parâng, Obârșia Lotrului (1952); BOBÎRNAC et al., 1971 - Rânca (1964); RAKOSY et al., 2003 - Oltenia (1901-1980); CHIMIȘLIU & GOGA, 2005 - Călimănești (1963).

Examined material - 9 specs.: Rânca 3 specs. August 4, 1980 C.C.; 4 specs. July 21, 1982 C.C.; 1 spec. Rânca (Păpușa) 1 spec. August 12, 1960 B.E.; Tismana 1 spec. July 5, 1962 P.I.

Protection status: NT (SZÉKELY, 2008).

Distribution: The Eastern and Southern Carpathians, the east side (SZÉKELY, 2008).

SZÉKELY (2008) mentions the spreading of the species in the east of the Southern Carpathians. Our data also show the presence of the species in the Southern side of the Southern Carpathians.

***E. euryale syrmia* (FRUHSTOFER 1919)**

Previous reports from the Oltenia fauna: ALESINSCHI & KÖNIG (1963) - Parâng and Obârșia Lotrului (1952); BOBÎRNAC et al., 1971 - Rânca (1964); RAKOSY et al., 2003 - Oltenia (1981-2001).

Protection status: NT (SZÉKELY, 2008).

Distribution: The Eastern and Southern Carpathians, The Apuseni Mountains (SZÉKELY, 2008).

The species misses from the museum heritage.

***E. gorge fridericiokoenigi* VARGA 1999**

Previous reports from the Oltenia fauna: ALESINSCHI & KÖNIG (1963) - Cârja Peak (Parâng), Călcescu Lake (1954); RAKOSY et al., 2003 - Oltenia (1901-1980).

Examined material 1 spec.: Râncea July 21, 1982 C.C.

Protection status: VU (SZÉKELY, 2008).

Distribution: The Eastern and Southern Carpathians, The Apuseni Mountains (SZÉKELY, 2008).

E. ligea nikostrate FRUSHSTORFER 1909

Previous reports from the Oltenia fauna: BOBÎRNAC et al., 1971 - Parâng chalet (1963); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Domogled (1966), Râncea (1964).

Examined material - 4 specs.: The Sohodol Gorges 1 spec. July 16, 1999 C.C.; 2 specs. June 28, 2000 C.C.; Râncea 1 spec. July 23, 1982 V.A.

Protection status: LC (SZÉKELY, 2008).

Distribution: The Eastern and Southern Carpathians and the Apuseni Mountains, Southern Banat and Northern Oltenia (SZÉKELY, 2008).

RAKOSY et al. (2003) mention the presence of this species in Oltenia between 1981 and 2001, but the first mention of this species dates from 1963 (BOBÎRNAC et al., 1971).

E. manto trajanus HORMUZACHI 1895

Previous reports from the Oltenia fauna: RAKOSY et al., 2003 - Oltenia (1901-1980).

Protection status: VU (SZÉKELY, 2008).

Distribution: The Eastern and Southern Carpathians (SZÉKELY, 2008).

The species from the museum heritage.

E. medusa medusa (DENIS & SCHIFFERMÜLLER 1775)

Previous reports from the Oltenia fauna: BOBÎRNAC, 1962 - Tidvele Mountain (Parâng) (1957); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Călimănești (1964); CHIMIȘLIU, 2006 - Râncea (1962).

Examined material - 1 spec.: Seaca May 18, 1972 B.E.

Protection status: LC (SZÉKELY, 2008).

Distribution: Northern Oltenia, Transylvania, Maramureș, Crișana, Satu Mare, Western Moldova (SZÉKELY, 2008).

The first mention of this species in Oltenia dates since 1962 (BOBÎRNAC, 1962), but the species was collected in 1957. RAKOSY et al., 2003 mentions the species in Oltenia between 1981 and 2001.

E. melas melas (HERBST 1796)

Previous reports from the Oltenia fauna: MARCU, 1929 - Turnu Severin (1928); RAKOSY et al., 2003 - Oltenia (1850-1900).

Examined material - 1 spec.: The Sohodol Gorges August 30, 1974 P.I.

Protection status: VU (SZÉKELY, 2008).

Distribution: The western side of the Southern Carpathians and the southern Banat (SZÉKELY, 2008).

RAKOSY et al. (2003) mention the presence of this species in Oltenia until 1928. It was found again by Marcu in 1928 at Drobeta Turnu Severin (MARCUS, 1929). The continuing existence of this species is confirmed by data from the museum heritage until 1974.

E. pandrose roberti (PESCHKE 1920)

Previous reports from the Oltenia fauna: BOBÎRNAC, 1962 - Păpușa Peak (1957); RAKOSY et al., 2003 - Oltenia (1901-1980); CHIMIȘLIU & GOGA, 2005 - Râncea (1970), Parâng Peak (1964).

Examined material - 1 spec.: Râncea July 12, 1982 C.C.

Protection status: NT (SZÉKELY, 2008).

Distribution: The Southern Carpathians and the northern side of the Eastern Carpathians (SZÉKELY, 2008).

E. sudetica radnaensis REBEL 1915

Previous reports from the Oltenia fauna: RAKOSY et al., 2003 - Oltenia (1981-2001).

Protection status: EN (SZÉKELY, 2008).

Distribution: The Southern and Eastern Carpathians (SZÉKELY, 2008).

This subspecies misses from the museum heritage.

Tribe Maniolini

Genus *Aphantopus* WALLENGREN 1853

A. hyperantus (LINNAEUS 1758)

Previous reports from the Oltenia fauna: STĂNOIU & BOBÎRNAC, 1965 - Novaci (1957); STĂNOIU et al., 1978 - Sadu (1976); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Călimănești (1964), Craiova (1962).

Examined material - 19 specs.: Baia de Fier 2 specs. May 11, 1958 P.G.; 1 spec. Bucovăț June 3, 1958 P.G.; 1 spec. June 8, 1958 P.G.; The Sohodol Gorges 1 spec. July 21, 1999 C.C.; 1 spec. July 24, 1999 C. C.; 1 spec. August 11, 2004 C.C.; Craiova 2 specs. July 14, 1959 B.E.; Licurici 1 spec. July 2, 1982 P.I.; Olănești 1 spec. July 8, 1957 P.G.; Oveselu 1 spec. October 5, 1966 B.E.; The Cușalitră Cave 1 spec. July 31, 1966 B.E.; Racovița 2 specs. July 20, 1984 C.C.; Rojiște 3 specs. July 25, 1984; P.I.; Tismana 1 spec. July 7, 1966 B.E.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania except the Danube Delta (SZÉKELY, 2008).

RAKOSY et al. (2003) mentions the presence of the species in Oltenia between 1981 and 2001, but it was previously reported (STĂNOIU & BOBÎRNAC, 1965), being collected in 1957. Our data confirm the existence of this species in Oltenia during 1958-2004.

Genus *Hyponephele* MUSCHAMP 1915

H. lycaon (ROTTEMBURG 1775)

Previous reports from the Oltenia fauna: STĂNOIU & BOBÎRNAC, 1965 - Pociovaliște (1957); RAKOSY et al., 2003 - Oltenia (1981-2001).

Protection status: VU (SZÉKELY, 2008).

Distribution: The Southern and Eastern Carpathians, the Apuseni Mountains, Southern Banat and Southern Moldova (SZÉKELY, 2008).

RAKOSY et al. (2003) mentions the presence of the species in Oltenia between 1981 and 2001, but it was previously reported (STĂNOIU & BOBÎRNAC, 1965), being collected in 1957. The species misses from the museum heritage.

Hyponephele lupinus (O. COSTA 1836)

Previous reports from the Oltenia fauna: RAKOSY et al., 2003 - Oltenia (1901-1980); Southern Oltenia (SZÉKELY, 2008) as uncertain area.

Protection status: CR (SZÉKELY, 2008).

Distribution: The Danube Delta (SZÉKELY, 2008). The species misses from the museum heritage.

Genus *Maniola* SCHRANK 1801

M. jurtina jurtina (LINNAEUS 1758)

Previous reports from the Oltenia fauna: MARCU, 1929 - Piatra Cloșani (1928); ALEXINSCHI & PEIU (1954) - Roaba Forest (1952); ALESINSCHI & KONIG (1963) Lotru Mountains; BOBÎRNAC & SANDA, 1964 - Tâmburești and Dăbuleni (1959); STĂNOIU & BOBÎRNAC, 1965 - Polovragi (1957); STĂNOIU et al., 1973 - Grădiștea (1972); STĂNOIU et al., 1978 - Leamna (1977); RAKOSY et al., 2003 (Oltenia 1981-2001); CHIMIȘLIU & GOGA, 2005 - Ocnele Mari (1964); Bugiulești (1964, 1965), Craiova (1964), Dobromira (1975), Făgăraș (1968), Leamna (1963), Tismana (1976), Turcinești (1968, 1976).

Examined material - 148 specs.: Baia de Fier 1 spec. May 11, 1958 F.I.; 1 spec. May 23, 1958 P.G.; 1 spec. July 9, 1958 B.E.; Berbești 2 specs. September 28, 1971 B.E.; Braniște 1 spec. June 29, 1982 P.I.; Bucovăț 4 specs. June 3, 1958 P.G.; 1 spec. June 6, 1958 P.G.; 1 spec. July 27, 1967 P.M.; 1 spec. July 21, 1967 M.P.; 1 spec. July 3, 1997 F.G.; 1 spec. June 23, 1998 F.G.; 2 specs. July 23, 1998 V.A.; 3 specs. July 29, 2001 V.A.; 1 spec. July 5, 2003 F.G.; 1 spec. July 5, 2005 C.C. and B.L.; Caraorman 1 spec. June 26, 1989 C.C.; The Sohodol Gorges 1 spec. July 23, 1982 P.I.; 1 spec. August 5, 1992 C.C.; 1 spec. July 20, 1995 C.C.; 1 spec. July 27, 1995 C.C.; 5 specs. July 26, 1996 C.C.; 9 specs. August 5, 1996 C.C.; 4 specs. July 24, 1999 C.C.; 1 spec. June 26, 2000 C.C.; 1 spec. June 28, 2000 V.A.; 1 spec. August 5, 2004 C.C.; Craiova 1 spec. August 1, 1958 P.G.; 1 spec. June 17, 1969 B.E.; 4 specs. June 26, 1991 V.A.; Craiova (Botanical Garden) 2 specs. July 28, 1989 V.A.; Craiova (Meadow) 3 specs. July 13, 1970 P.I.; Craiova (Obedeanu) 3 specs. July 24, 1973 F.I.; Craiova (Park) 1 spec. May 27, 1981 V.A.; Desa 1 spec. August 5, 1982 C.C.; 3 specs. July 25, 1989 C.C.; Leamna 1 spec. July 5, 1965 B.E.; 1 spec. July 8, 1966 F.I.; Licurici 1 spec. July 2, 1982 P.I.; The Jiu Meadow 1 spec. June 15, 1958 P.G.; 1 spec. August 13, 1966 P.M.; 1 spec. September 24, 1966 P.I.; 1 spec. June 17, 1968 P.I.; Mamaia 4 specs. July 16, 1991 C.C.; Mischii 1 spec. June 19, 1992 F.G.; Mofleni 2 specs. June 15, 1958 P.G.; 1 spec. June 19, 1958 P.G.; 1 spec. June 17, 1958 P.M.; Negoii 2 specs. August 3, 1998 V.A.; Ocnita 3 specs. August 15, 1998 C.C.; Olănești 3 specs. July 8, 1957 P.G.; 1 spec. June 7, 1958 P.G.; Oveselu 1 spec. October 5, 1966 B.E.; The Cușalitră Cave 1 spec. July 31, 1966 B.E.; Pietrele Albe 1 spec. August 3, 1996 P.A.; Pisculeț 1 spec. August 31, 1998 C.C.; Racovița 7 specs. July 10, 1979 N.A.; 11 specs. July 20, 1984 C.C.; Rojiște 2 specs. July 25, 1989 P.I.; Secui 1 spec. May 27, 2008 C.C.; 1 spec. July 20, 2010 C.C.; Segarcea 6 specs. June 20, 1981 C.C.; 1 spec. June 21, 1981 N.A.; 1 spec. June 17, 1982 V.A.; Șimnic 1 spec. July 7, 2001 F.G.; Tismana 1 spec. June 24, 1970 B.E.; 2 specs. June 25, 1970 B.E.; 1 spec. August 23, 1992 C.C.; 1 spec. August 25, 1992 C.C.; The Lotru Valley 1 spec. August 24, 1957 F.I.; The Olt Valley 11 specs. August 4, 1979 N.A.; Vâlcom 4 specs. June 20, 1990 C.C.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania (SZÉKELY, 2008).

RAKOSY et al. (2003) mentions the presence of the species in Oltenia between 1981 and 2001, but it was previously reported by MARCU (1929) - Piatra Cloșani. Our data confirm the existence of this species in Oltenia during 1957-2010.

Genus *Pyronia* HUBNER 1819***P. tithonus tithonus*** (LINNAEUS 1767)**Previous reports from the Oltenia fauna:** STĂNOIU et al., 1973 - Grădișteea; RAKOSY et al., 2003 - Oltenia (1901-1980); CHIMIȘLIU & GOGA, 2005 - Domogled (1966), Băile Herculane, Călimănești (1966).**Examined material - 16 specs.:** Balota 1 spec. July 21, 1973 B.E.; The Sohodol Gorges 1 spec. July 26, 1996 C.C.; Craiova 1 spec. June 23, 1958 P.G.; Peștera Cușalitră 1 spec. July 31, 1966 B.E.; Polovragi 9 specs. August 12, 1971 B.E.; Tismana 3 specs. August 23, 1992 C.C.**Protection status:** EN (SZÉKELY, 2008).**Distribution:** Banat, South-west Transylvania, Crișana, Satu Mare (SZÉKELY, 2008).

RAKOSY et al. (2003) mentions the presence of the species in Oltenia between 1900 and 1980. Our data confirm the existence of this species in Oltenia during 1958-1996.

Tribe Melanargiini**Genus *Melanargia* MEIGEN 1828*****M. galathea*** (LINNAEUS 1758) (Fig. 1).**Previous reports from the Oltenia fauna:** MARCU 1929 - Piatra Cloșani (1928); ALEXINSCHI & PEIU (1954) - Roaba Forest (1952); ALESINSCHI & KONIG (1963) - The Parâng Mountains; STĂNOIU & BOBÎRNAC, 1965 - Novaci (1957); BOBÎRNAC et al., 1966 - Cireșu (1964); BOBÎRNAC et al., 1970 - Novaci (1957); STĂNOIU et al., 1978 - Leamna (1977); BOBÎRNAC & MATEI, 1983 - Tâmburești and Banu Măracine (1976-1982; RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Călimănești (1963); CHIMIȘLIU, 2006 - Craiova (1970), Făgăraș (1965), Plenița (1973), Turcinești (1968).**Examined material - 59 specs.:** Bucovăț 1 spec. July 21, 1980 C.C.; 1 spec. July 4, 1982 V.A.; 7 specs. July 23, 1998 V.A.; The Sohodol Gorges 1 spec. July 21, 1999 C.C.; 1 spec. July 20, 2001 A.V.; 2 specs. July 5, 2005 C.C. și B.L.; Plenița 2 specs. July 9, 1984 C.C.; Poiana Stampei 1 spec. July 26, 1953 F.I.; Racovița 1 spec. July 10, 1979 N.A.; 6 specs. July 20, 1984 C.C.; Săcelu 2 specs. July 5, 1980 N.A.; Segarcea 1 spec. June 20, 1981 C.C.; 6 specs. June 10, 2002 C.C.; Straja-Vâlcan 1 spec. August 9, 1991 V.A.; Târgul Logrești 3 specs. July 9, 1975 B.E.; The Olt Valley 23 specs. July 31, 1979 N.A.**Protection status:** LC (SZÉKELY, 2008).**Distribution:** Throughout Romania (SZÉKELY, 2008).

RAKOSY et al. (2003) mentions the presence of the species in Oltenia between 1981 and 2001, but it was previously reported by MARCU (1929) - Piatra Cloșani. Our data confirm the existence of this species in Oltenia during 1953-2005.

M. galathea (LINNAEUS 1758) (f. *leucomelas*) (Fig. 2).**Examined material:** Bucovăț 1 spec. July 5, 2005 C.C.

This is the first mentioned in the fauna of Oltenia.

Figure 1. *Melanargia galathea* (ventral part) (original).Figura 1. *M. galathea* (partea ventrală) (original).Figure 2. *M. galathea* f. *leucomelas* (ventral part) (original).Figura 2. *M. galathea* f. *leucomelas* (partea ventrală) (original).**Tribe Satyrini****Genus *Arethusana* LESSE 1951*****A. arethusana arethusana*** (DENIS & SCHIFFERMULLER 1775)**Previous reports from the Oltenia fauna:** (1953)-Orșova-Alion Hill; RAKOSY et al., 2003 (Oltenia 190-1980).**Protection status:** EN (SZÉKELY, 2008).**Distribution:** Banat, South-west Transylvania, Dobrogea (SZÉKELY, 2008).

The species misses from the museum heritage.

Genus *Hipparchia* FABRICIUS 1807***H. (Hipparchia) fagi* (SCOPOLI 1763)**

Previous reports from the Oltenia fauna: STĂNOIU et al., 1978 - Sadu (1976); RAKOSY et al., 2003 - Oltenia (1901-1980).

Examined material - 3 specs.: The Sohodol Gorges 1 spec. July 19, 1999 C.C.; 1 spec. August 15, 2003 C.C.; Gogoșu 1 spec. August 10, 2001 N.A.

Protection status: LC (SZÉKELY, 2008).

Distribution: The Northern Oltenia, Muntenia, Banat, Transylvania, Crișana, Northern Dobrogea (SZÉKELY, 2008).

RAKOSY et al. (2003) mentions the presence of the species in Oltenia between 1981 and 2001. Our data confirm the continuing existence of this species in Oltenia during 1958-2004.

***H. semele semele* (LINNAEUS 1758)**

Previous reports from the Oltenia fauna: STĂNOIU et al., 1978 - Orșova (1976); RAKOSY et al., 2003 - Oltenia (1981-2001); CHIMIȘLIU & GOGA, 2005 - Călimănești (1964).

Examined material - 5 specs.: The Sohodol Gorges 1 spec. June 23, 1982 P.I.; 1 spec. July 19, 1999 C.C.; 1 spec. July 24, 1999 C.C.; 1 spec. July 22, 1995 C.C.; 1 spec. May 5, 1996 C.C.

Protection status: LC (SZÉKELY, 2008).

Distribution: Northern Muntenia, Banat, Transylvania, Crișana, Satu Mare, Dobrogea (SZÉKELY, 2008).

This species was not mentioned by SZÉKELY (2008) in Oltenia.

***H. statilinus* (HUFNAGEL 1766)**

Previous reports from the Oltenia fauna: STĂNOIU et al., 1978 - Strehaia (1975); RAKOSY et al., 2003 - Oltenia (1901-1980); CHIMIȘLIU & GOGA, 2005 - Băile Herculane (1966), Drobeta Turnu-Severin (1963), Orșova (1968).

Protection status: VU (SZÉKELY, 2008).

Distribution: Southern Banat, South-west Oltenia, Dobrogea, South-west Muntenia, The Danube Delta (SZÉKELY, 2008).

The species has been present in the museum heritage since 1963, 18 years prior to the date mentioned by RAKOSY et al. (2003).

The species was not found again in the analysed material.

Genus *Chazara* MOORE 1893***C. briseis briseis* (LINNAEUS 1764)**

Previous reports from the Oltenia fauna: CHIMIȘLIU & GOGA, 2005 - Drobeta Turnu-Severin (1963).

Protection status: NT (SZÉKELY, 2008).

Distribution: Transylvania Plain, Southern Transylvania, Crișana (SZÉKELY, 2008).

The species was not found again in the analysed material. Only one specimen is preserved in the museum heritage in the "Ion Stănoiu" Collection.

Genus *Brintesia* FRUHSTORFER 1911***B. circe panonica* (FRUHSTORFER 1911)**

Previous reports from the Oltenia fauna: STĂNOIU & BOBÎRNAC, 1965 - Novaci (1957); STĂNOIU et al., 1978 - Craiova surrounding forests (1977); RAKOSY et al., 2003 - Oltenia (1901-1980); CHIMIȘLIU & GOGA, 2005 - Drobeta Turnu-Severin (1963), Cernele Forest (1966), Cobia Forest (1968), Palilula Forest (1967), Perișor Forest (1967), Novaci (1967).

Examined material - 8 specs.: Bucovăț (forest) 1 spec. June 19, 1968 P.I.; 1 spec. July 4, 1982 V.A.; 2 specs. July 10, 1982 C.C.; 2 specs. August 27, 1982 C.C.; 1 spec. July 5, 2005 C.C.; Leamna 1 spec. July 2, 2003 V.A.

Protection status: NT (SZÉKELY, 2008).

Distribution: Northern Oltenia, Banat, Crișana, Southern Transylvania, Dobrogea (SZÉKELY, 2008). The species is found also in the central part of Oltenia.

Genus *Minois* HUBNER 1819***M. dryas* (SCOPOLI 1763)**

Previous reports from the Oltenia fauna: STĂNOIU & BOBÎRNAC, 1965 - Baia de Fier (1957); STĂNOIU et al., 1978 - Craiova surrounding forests (1977); RAKOSY et al., 2003 - Oltenia (1901-1980).

Examined material - 16 specs.: Bucovăț 2 specs. July 11, 1978 V.A.; 4 specs. July 21, 1980 C.C.; 1 spec. July 4, 1982 C.C.; 1 spec. August 23, 1982 C.C.; 1 spec. August 21, 1989 C.C.; 3 specs. July 16 2003 B.L.; Craiova 1 spec. August 5, 1951 F.I.; 1 spec. June 26, 1991 V.A.; Leamna 2 specs. July 31, 2001 C.C. and B.L.

Protection status: LC (SZÉKELY, 2008).

Distribution: Throughout Romania except Southern Oltenia and Southern Banat (SZÉKELY, 2008).

Specimens collected during 1951-2001 are preserved in the museum heritage.

In the analysed material (379 specimens), The Maniolini tribe is the best represented (173 specimens belonging to 5 species and subspecies, included in 4 genera).

The most represented subspecies is *Maniola jurtina jurtina* (148 specs.), followed by the species *Melanargia galathea* (59 specs.), and *Coenonympha pamphilus* (41 specs.).

From the endangerment degree (IUCN) point of view, the 32 identified species and subspecies are: one critically endangered species (CR), 5 endangered species (EN), 6 vulnerable species (VU), 5 near threatened species (NT); 15 least concern species (LC).

Kirinia roxelana is a protected species by the European legislation.

The 32 species identified in Oltenia fauna represents 66.66% of the Satyrinae species mentioned in the fauna of Romania. Considering that the surface of Oltenia is about 11% of Romania's surface, the presence of 66.66% of this group of lepidopteran in Oltenia fauna shows the great diversity of this area.

From the 32 species and subspecies present in the Oltenia fauna, 25 are preserved in the museum heritage. Seven species (*Lopinga achine*, *Erebia euryale syrmiensis*, *E. manto trajanus*, *E. sudetica radnaensis*, *Hyponephele lycaon*, *H. lupinus*, *Arethusana arethusana*) mentioned by other authors in Oltenia fauna are not present in the museum collections.

Three species previously mentioned from the museum heritage (CHIMIȘLIU & GOGA, 2005) had not been found again in the analysed material: *Kirinia roxelana*, *Hypparchia statilinus*, and *Chazara briseis*.

The identification of 43 new sites increases the number of the collection sites known from Oltenia from 55 to 98, contributing to a better understanding of the species distribution in Romania.

Most of the collection sites are from Dolj County, followed by Gorj County. Amongst the counties of Oltenia, the least studied and known in entomofaunistic terms is Olt County.

CONCLUSIONS

The data obtained by processing the material preserved in the museum heritage lead to a better knowledge of the habitat area of the Satyrinae subfamily species in Oltenia fauna and implicitly of Romania and to a better knowledge of their diversity in this area.

The *leucomelas* form of the *Melanargia galathea* species is mentioned for the first time.

The obtained data regarding the diversity and distribution of the Satyrinae reconfirm the importance of entomological museum collections in scientific knowledge of biodiversity.

The presence of the species with different degrees of endangerment in the heritage museum, along with other rare species, increases its scientific value.

We consider that further taxonomic studies on the Satyrinae are needed in order to know their real diversity and distribution, and also for the completion of the museum heritage with the species which were reported in the literature but miss from the museum heritage.

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