

ON THE OPILIONID FAUNA (ARACHNIDA, OPILIONES) FROM THE SW PART OF ROMANIA

ANDA FELICIA BABALEAN

Department of Biology, Faculty of Horticulture, University of Craiova,
13 A.I. Cuza Street, Craiova, Romania [babalean@zappmobile.ro]

Abstract: A checklist of 43 epigeal, endogean and cave Opilionid species recorded from the S-W part of Romania is presented, based on own investigations (1996-2002), as well as on bibliographical data. *Nemastoma transsylvanicum* Gruber et Martens, 1968 and *Platybunus pallidus* Šilhavý, 1938 are recorded for the first time in this region. A short presentation of the distribution is also given.

Keywords: checklist, Opilionid species, Carpathians

INTRODUCTION

The Opilionid fauna from the S-W part of Romania was studied until now by AVRAM (1964, 1965, 1968a,b, 1969, 1971, 1973), CIRDEI et al. (1970), AVRAM & DUMITRESCU (1969), DUMITRESCU (1968, 1972), BABALEAN (1997, 1998, 1999, 2000, 2001, 2002, 2003), ILIE (2002) and by BABALEAN & ILIE (2003).

The aim of the study is to present the species diversity of opilionid fauna in south-western Romania in frames of the Fauna Carpathica 2005 validation workshop held at Smolenice, Slovakia as a part of the Fauna Europaea project.

MATERIAL AND METHODS

The studied region, very well balanced as regarding the relief, includes the following geographical subunits:

1. the plain region: Romaniștilor Plain, Băileștilor Plain, Blahniței Plain, Carașului Plain, Gătaiei Plain, Timișului Plain, Lugoșului Plain;

2. the plateau region: Strehăia Plateau, Jiului Plateau, Mehedinți Plateau, Tg. Jiu Plateau, Subcarpații Olteniei, Oraștie Hills, Hațeg Plateau, Silagiu, Sacoș and Buziaș Hills, Lipovei Plateau, Zarand Plateau;

3. the mountain region is a part of the Meridional and West Romanian Carpathian Mts: a) Meridional Carpathians: Mehedinți Mts, Cernei Mts, Godeanu Mts, Țarcu Mts, Oslea Mts, Vâlcan Mts, Parâng Mts, Șureanu Mts, Retezat Mts; b) West Carpathians: Almăjului Mts, Locvei Mts, Aninei Mts, Semenic Mts, Dognecea Mts, Areniș Mts, Poiana Ruscă Mts, Metaliferi Mts, Zarand Mts.

RESULTS

After analyzing all the bibliographical sources previously mentioned it was realized a faunistic list set arranged according to MARTENS 1978.

This contribution was presented at the “2nd Fauna Carpathica Meeting” organised within the Fauna Europaea project at Smolenice, Slovakia, March 16-19, 2004.

Suborder Laniatores
Superfamily Travunioidea
Family Erebomastridae Briggs, 1969

1. *Holoscotolemon unicolor* Roewer, 1915

References from studied area: CIRDEI et al. (1970)

Distribution: Alpin-Dinaric

2. *Holoscotolemon jaqueti* (Corti, 1905)

Syn.: 1957 *Bukowina hormuzachii* Cirdei, Stud. Cerc. Şti., Iaşi, 8: 59; 1968 *Bukowina monticola* in AVRAM, Annl. de Spéléologie, 23, 3:647; 1968 *Scotolemops dacicus* in AVRAM, Annl. de Spéléologie, 23, 3:647; *Brigestus granulatus* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol “Emil Racoviţă”, 8: 101; *Brigestus granulatus* in DUMITRESCU, Trav. du Mus. Hist. Nat. “Grigore Antipa”, 12: 69; 2002 *Holoscotolemon granulatus* in ILIE, Arch. Biol. Sci., Belgrade, 54 (1-2): 49.

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (1999, 2000a, 2000b, 2002, 2003); ILIE (2002); BABALEAN & ILIE (2003)

Distribution: S-E European, the Carpathians

Suborder Palpatores
Superfam Troguloidea
Family Nemastomatidae Simon, 1879

3. *Nemastoma lugubre* (Müller, 1776)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); ILIE (2002)

Distribution: Subatlantic (Central European)

4. *Nemastoma bidentatum sparsum* Gruber et Martens, 1968

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); DUMITRESCU (1972); BABALEAN (2001, 2003)

Distribution: S-E European Carpathians

5. *Nemastoma transsylvanicum* Gruber et Martens, 1968

References from studied area: BABALEAN (2002a, 2003)

Distribution: endemit of the Romanian Carpathians

6. *Paranemastoma quadripunctatum* (Perty, 1833)

Syn.: 1969 *Nemastoma nervosum* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. “Emil Racoviţă”, 8: 112; 2002 *Nemastoma nervosum* in ILIE, Biol. Sci., Belgrade, 54 (1-2): 50

References from studied area: AVRAM & DUMITRESCU (1969); ILIE (2002)

Distribution: (subatlantic-) Central European montan

7. *Paranemastoma silli* (Herman, 1871)

Syn.: 1969 *Nemastoma silli* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. “Emil Racoviţă”, 8: 106.

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); ILIE (2002); BABALEAN (1997, 1999, 2000, 2002b, 2003); BABALEAN & ILIE (2003)

Distribution: endemit of the Carpathians

8. *Paranemastoma kochi* (Nowicki, 1870)

Syn.: 1969 *Nemastoma kochi* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviță", 8: 111

References from studied area: AVRAM & DUMITRESCU (1969); ILIE (2002)

Distribution: endemite of the Carpathians

9. *Paranemastoma ancae* Avram, 1973

References from studied area: AVRAM (1973b); BABALEAN (2002b, 2003)

Distribution: endemite of the W Romanian Carpathians

10. *Carinostoma elegans* (Soerensen, 1894)

Syn.: 1969 *Mitostoma elegans* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviță", 8: 113; 1951 *Nemastoma elegans* var. *atorligetiense* in SZALAY, Acta. biol. Acad. Sci. Hung., 2: 309

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); ILIE (2002); BABALEAN (2000, 2001, 2002a, 2002b, 2003)

Distribution: S-E European Montan, Carpathian

11. *Mitostoma chrysomelas* (Hermann, 1804)

Syn.: 1965 *Mitostoma chrysomelas romanicum* Avram, Lucr. Inst. de Speol. "Emil Racoviță", 4: 181-186; 1969 *Mitostoma romanicum* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviță", 8: 114

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (1999, 2002a, 2002b, 2003)

Distribution: European (Atlantic, Central and E European)

Family Dicranolasmatidae Simon, 1879

12. *Dicranolasma scabrum* (Herbst, 1799)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); ILIE (2002); BABALEAN (2000, 2001, 2002a, 2002b, 2003); BABALEAN & ILIE (2003)

Distribution: European-montan, Carpathian-Dinaric

Fam. Trogulidae Sundevall, 1833

13. *Trogulus tricarinatus* (Linnaeus, 1767)

References from studied area: AVRAM & DUMITRESCU (1969); AVRAM (1971); BABALEAN (2000, 2001, 2002a, 2002b, 2003); BABALEAN & ILIE (2003)

Distribution: European (subatlantic and continental)

14. *Trogulus nepaeformis* (Scopoli, 1763)

References from studied area: AVRAM & DUMITRESCU (1969); ILIE (2002); BABALEAN (2001, 2002a, 2002b, 2003)

Distribution: European (atlantic and continental)

15. *Trogulus tingiformis* C.L. Koch, 1848

Syn.: 1971 *Trogulus gruberi* Avram, Trav. Inst. Spéol. "Emile Racovitza", 10: 259

References from studied area: BABALEAN (2000, 2003)

Distribution: Alpin-Dinaric-Carpathian

16. *Trogulus closanicus* Avram, 1971

References from studied area: AVRAM (1971)

Distribution: endemit of the Romanian Carpathians

17. *Trogulus oltenicus* Avram, 1971

References from studied area: AVRAM (1971)

Distribution: endemit of the Romanian Carpathians

18. *Trogulus banaticus* Avram, 1971

References from studied area: AVRAM (1971)

Distribution: endemit of W Romanian Carpathians

Superfamily Ischyropsalidoidea

Family Ischyropsalididae Simon, 1879

19. *Ischyropsalis manicata* L. Koch, 1865

Syn.: 1969 *Ischyropsalis dacica* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviță", 8: 115; 2002 *Ischyropsalis dacica* in ILIE, Arch. Biol. Sci., Belgrade, 54 (1-2): 50

References from studied area: AVRAM & DUMITRESCU (1969); BABALEAN (1997, 2000, 2003); ILIE (2002)

Distribution: Carpathian element

Superfamily Phalangoidea

Family Phalangiidae Sundevall, 1833

Subfamily Phalangiinae Simon, 1879

20. *Phalangium opilio* Linnaeus, 1761

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); DUMITRESCU (1972); BABALEAN (1999, 2000, 2001, 2002a, 2002b, 2003); ILIE (2002); BABALEAN & ILIE (2003)

Distribution: Palaearctic

21. *Opilio parietinus* (De Geer, 1778)

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); DUMITRESCU (1972); BABALEAN (2000, 2002a, 2003)

Distribution: primary: asiatic submediterranean eremic; secondary: W Palaearctic and Nearctic, Australian (Tasmania)

22. *Opilio saxatilis* C.L. Koch, 1839

References from studied area: AVRAM & DUMITRESCU (1969); BABALEAN (2003)

Distribution: European

23. *Opilio ruzickai* Šilhavý, 1938

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); ILIE (2002); BABALEAN (2002b, 2003)

Distribution: S-E European montan

24. *Opilio dinaricus* Šilhavý, 1938

References from studied area: DUMITRESCU (1972)

Distribution: C European, montan

25. *Platybunus bucephalus* (C.L. Koch, 1835)

References from studied area: AVRAM & DUMITRESCU (1969); BABALEAN (2003)

Distribution: European, montan

26. *Platybunus pinetorum* (C.L. Koch, 1839)

Syn.: 1964 *Platybunus cirdeii* Avram, Rev. Roum. Biol. Zool., 9, 6: 377; 1969 *Platybunus cirdeii* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviță", 8: 134

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (1999, 2000, 2002a, 2003); BABALEAN & ILIE (2003)

Distribution: European, montan

27. *Platybunus decui* Avram, 1968

References from studied area: AVRAM (1968) (in the Latoriței Mts, near vicinity of the Parâng Mts); DUMITRESCU (1968); BABALEAN (2001, 2003)

Distribution: endemit of the Romanian Carpathians

28. *Platybunus pallidus* Šilhavý, 1938

References from studied area: BABALEAN (2000, 2003)

Distribution: endemit of the Carpathians

29. *Platybunus banarescui* Babalean, 2004

References from studied area: BABALEAN (2004)

Distribution; endemit of the Romanian Carpathians

30. *Rilaena triangularis* (Herbst, 1799)

Syn.: 1969 *Platybunus triangularis* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviță", 8: 135; 1972 *Platybunus (Paraplatybunus) triangularis* Dumitrescu, Trav. Mus. Hist. Nat. "Grigore Antipa", 12: 77

References from studied area: AVRAM (1968a); AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (2001, 2002a, 2003)

Distribution: Atlantic

31. *Lophopilio palpinalis* (Herbst, 1799)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (2002b, 2003)

Distribution: (C) European (sub) Atlantic

32. *Zacheus crista* (Brullé, 1832)

Syn.: 1956 *Zacheus hungaricus* in ŠILHAVÝ, Fauna ČSR-7

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); BABALEAN (2001, 2002a, 2003); ILIE (2002); BABALEAN & ILIE (2003)

Distribution: Pontomediterranean; eremic; Transadriatic

33. *Egaenus convexus* (C.L. Koch, 1835)

Syn.: 1978 *Egaenus carpathicus* Avram, 1978, Trav. Inst. Spéol. "Emile Racovitza", 17: 61-65

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); DUMITRESCU (1972); ILIE (2002); BABALEAN (2001, 2002a, 2002b, 2003); BABALEAN & ILIE (2003)

Distribution: S-E European

Subfamily Oligolophinae Banks, 1893

34. *Oligolophus tridens* (C.L. Koch, 1836)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); ILIE (2002); BABALEAN (2002a, 2000b); BABALEAN & ILIE (2003)

Distribution: Atlantic (and continental E and S-E European)

35. *Lacinius horridus* (Panzer, 1794)

Syn.: 1970 *Lacinius gallipoliensis* in CIRDEI et al., Anal. Şti. Univ. "A.I.Cuza" Iaşi, 16, 2: 312

References from studied area: AVRAM & DUMITRESCU (1969); CIRDEI et al. (1970); DUMITRESCU (1972); ILIE (2002)

Distribution: (S-E-) European-Mediterranean eremic

36. *Lacinius dentiger* (C.L. Koch, 1848)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (2001, 2002b, 2003); ILIE (2002); BABALEAN & ILIE (2003)

Distribution: S-E European, Submediterranean

37. *Lacinius ephiatus* (C.L. Koch, 1835)

References from studied area: AVRAM & DUMITRESCU (1969)

Distribution: European preponderant Atlantic

38. *Odiellus lendli* (Soerensen, 1894)

Syn.: 1969 *Odiellus bieniaszi* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviţă", 8: 124; 1972 *Odiellus bieniaszi* in DUMITRESCU, Trav. Mus. Hist. Nat. "Grigore Antipa", 12: 74

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972)

Distribution: Pontomediterranean

39. *Mitopus morio* (Fabricius, 1799)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (1997, 1999, 2000, 2003); ILIE (2002)

Distribution: Holarctic

Subfamily Gyantinae Šilhavý, 1946

40. *Gyas titanus* Simon, 1879

Syn.: 1956 *Gyas annulatus* in ŠILHAVÝ, Fauna ČSR 7: 182; 1969 *Gyas annulatus* in AVRAM & DUMITRESCU, Lucr. Inst. de Speol. "Emil Racoviţă", 8: 120; 1972 *Gyas annulatus* in DUMITRESCU, Trav. Mus. Hist. Nat. "Grigore Antipa", 12: 77; 2002 *Gyas annulatus* in ILIE, Biol. Sci., Belgrade, 54 (1-2): 51

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (1998, 1999, 2000, 2003); ILIE (2002); BABALEAN & ILIE (2003)

Distribution: European montan, Carpathian Mts, Alps Mts, Iberic Mts

Subfamily Sclerosomatinae Simon, 1879

41. *Astrobunus laevipes* (Canestrini, 1872)

Syn.: 1933 *Roeweriolus hungaricus* Kolosváry, Zool. Anz. 102: 310; 1938 *Roeweriolus carpathicus* Bartoš, Zool. Anz., 123: 307; 1970 *Astrobunus bernardicus* in CIRDEI et al., Anal. Şti. Univ. "A.I.Cuza" Iaşi, 16, 2: 311

References from studied area: CIRDEI et al. (1970); DUMITRESCU (1972); BABALEAN (2001, 2003)

Distribution: S-E European

Subfamily Leiobuninae Banks, 1893

42. *Leiobunum rotundum* (Latreille, 1798)

References from studied area: AVRAM & DUMITRESCU (1969)

Distribution: preponderant atlantic

43. *Leiobunum rupestre* (Herbst, 1799)

References from studied area: AVRAM & DUMITRESCU (1969); DUMITRESCU (1972); BABALEAN (1997, 2000, 2002a, 2003); ILIE (2002)

Distribution: European (Alpin-Carpathian), secondary (Sub-) Atlantic

DISCUSSION

1. From the 43 mentioned species some of them were erroneously cited in the S-W part of Romania:

- *Holoscotolemon unicolor* it is a case of wrongful identification. The identification was done only on female habitus, while the most important character, the penis was ignored.

- *Paranemastoma quadripunctatum* it is a case of wrongful identification, too.

- *Leiobunum rupestre* – at least some individuals, by their morphological characters were, the most probably confused with *L. tisciae* Avram, 1968 (subject of a next paper).

2. It is to remark the great number of species endemic in the Carpathian Mts: *Paranemastoma silli*, *Paranemastoma kochii*, *Ischyropsalis manicata*, *Platybunus pallidus*, *Nemastoma transsylvanicum*, *Paranemastoma ancae*, *Platybunus decui*, *Platybunus banarescui*, *Trogulus closanicus*, *Trogulus oltenicus*, *Trogulus banaticus*, from which the last 7 species are recorded so far only in the Romanian Carpathians.

3. There is to notify the presence of some “blank areas” for which no bibliographical information was recorded because studies were not developed so far: Blahniței Plain, Gătaiei Plain, Jiului and Tg. Jiu Plateau, Orăștie Hills, Hațeg Plateau, Lipovei and Zarand Plateau, Oslea Mt., Șureanu Mt., Areniș Mt.

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