

Invertebrate species new for science and new for the Romanian fauna based din recent research in Maramures (1994-2009)

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The area of Historical Maramures (geographical) is situated in the North-Northwest of Romania, in the County of Maramures, being made up by a depression having the same name and the surrounding mountains down to the water sheds. In the North the limit of Maramures coincide with the state border between Romania and the Ukraine – the River Tisa and the Maramures Mountains.



Tisa river next Sighetu Marmăţiei

The surface of this territory is 3.375 km².



Historical Maramures map

From the bio-geographical point of view we speak about a well outlined area with a high bio-diversity. This is mainly because of the great variety habitats, relief energy is over 2000 meters, vegetation levels are well outlined starting from the alluvial fields of the Tisa up the alpine level of the Rodnei Mountains. In Maramures we have isolated areas, difficult to reach, with almost natural habitats with minimal anthropogenic pressures.



Rodnei Mountains

Systematic research of invertebrate fauna has begun in the year 1994, when specialists from the "Grigore Antipa" Museum of Natural History from Bucharest have trips to Maramures. Between the years 2004-2009 research teams from Budapest Museum of Natural have done a research in invertebrate fauna in Maramures based on their contracts of research with the "Vasile Goldis" Western University of Arad, who have succeeded to make three-four study expeditions annually. During this period Maramures has also been visited by other foreign zoologists (Polish, Austrian, Hungarian), who have found here new species for science and for Romanian fauna.



Maramureșului Mountains

In this paper we enumerate the new species for the science and for the fauna Roumania with recorded place and date of collecting. These species are published in various papers, in Traveaux Vol. XXVII-LII and Studia Univ. "V. Goldis" Life Sciences Series Vol. supp. 2006 and Vol. XVIII, supp. 2008 and other publications of the kind.

However, we mention the fact that the collected material within the said interval of time has not been completely processed, we already have signals that in the near future mentions will also be made on other new species for the fauna of Romania and even described ones for the science from Maramures.



Volcanic Plateau

Next, we present the list of species that are new to science, collected in Maramures by several researchers and published in various scientific papers

NEW SPECIES FOR SCIENCE

COLLEMBOLA

Orychiuridae

1. Protophorura ionescui. n. sp

Rodnei Mts. in Orientali Carpathias, Borșa, N stope of Pietrosul Rodnei (2303) cca 1200m, 27.07.2004

Isotomidae

2. *Tetracanthella borsa n.sp.*

Rodnei Mts., Borşa, Gura Fântânii, spring area of the Bistriţa Aurie River under the Gărgălau Peak, pine scrub and alpine grassland, 1668-1711m, 29.06.2005

Dany L., Traser G., (7)

3. *Tetracanthella ignisiana n. sp.*

Igniş Mts., Deseşti, Staţiunea Izvoare, Tătarului Gorge, Brazi stream, alt. 738m, 01.09.2004

Dany L., Traser G., (7)

PLECOPTERA

4. *Leuctra dalmoni n.sp.*

Lăpuşului (Văratec) Mts., Văleni, Zermilor Lake, 23.05.2006;

Țibleş Mts., Dragomireşti, Baicu stream, 24.05.2006;

Maramureşului Mts., Poieni Valey, Petrova, Tomnatic stream, 950m, 25.05.2006;

Vinçon G., Muranyi D., (37)

ACARI – MESOSTIGMATID

Trachytidae

5. *Trachytes carpaticus n. sp.*

Igniş Mts. Piatra, Vadul Izei, Bârlan, 700m, 20.09.2005

Kontschan J., (11)

Veigaiiidae

6. *Veigaiia transilvanica n. sp.*

Maramureşului Mts., Borşa, Baia Borşa, sphagnum moss, 1046m, 26.09.2006

Kontschan J., Ujvari Zs. (12)

ORIBATIDS – RIBATIDA

Galumnidae

7. *Pergalumna seminervosus n. sp.*

Rodnei Mts., Borşa, Staţiunea Borşa, spring rook of the Bistriţa Aurie River under the Gărgălau Peak, 26.09.2006

Igniş Mts., Deseşti, Tatarului gorge, 750m, 27.09.2006

Rodnei Mts., Săcel, Iza gorge, 946m, 20.05.2008

Mahunka S., Mahunka L., (15)

Gustaviidae

8. *Gustavia transilvanica n. sp.*

Rodnei Mts., Borșa, Stațiunea Borșa, 878-1022m,

28.06.2005

Igniș Mts., Sighetu-Marmației, Piatra Mts, 1200m,

21.09.2005

Mahunka S., (14)

Oppiidae

9. *Neotrichoppia (Confinoppia) calugarae* n. sp.

Rodnei Mts., Săcel, near Iza Izvor, 1000m,

22.09.2005

Rodnei Mts., Săcel, near Iza, 22.09.2005

Mahunka S., (14)

10. *Neotrichoppia (Confinoppia) beresi* n. sp.

Igniș Mts., Desești, Tătarului gorge, 750m,

27.09.2006

Mahunka S., Mahunka L., (15)

Punctoribatidae

11. *Schweizerzeles anoporus* n. sp.

Igniș Mts., Giulești, Poiana Brazilor, 900m, bog
decaying woods, some peat-moss, 31.08.2004

Mahunka S. (14)

HOMOPTERA – AUCHENORRHYNCHA

Cicadellidae

12. *Diplocolenus (Erdianus) beresi* n. sp.

Rodnei Mts., Stațiunea Borșa, Gărgălau peak,

2100m, 01.08.2002

Rodnei Mts., Borșa, Știol and Prislop, 1500m,

29.08.2005 (20)

NEW SPECIES FOR ROMANIAN FAUNA

OLIGOCHAETA

Lumbricidae

1. *Allolobophora sturanvi* (Rosa, 1895) Records: Igniș Mts., Piatra Țiganului meadow, 1200 m, 21.09.2005, Sighetu Marmației - Igniș Mts., Vadul Izei, Piatra, 850 m, 21.09.2005. (3)

2. *Aporrectodea carpathica* Cognetti, 1927 Records: Igniș Mts., Săpânța stream, 500 m, 30.06.2005; Lăpuș Mts., Băiuț 860 m, 27.05.1996; Rodna Mts., Borșa, Prislop, 160 m, 19.09.1974. (3)

3. *Dendrobaena alpina alteclitellata* Pop, 1938 Records: Rodnei Mts., Borșa, 1665-1710 m, 29.06.2005; Rodnei Mts., Săcel, Muced Lake, 1400 m, 22.09.2005. (3)

4. *Octodrilus robustus* (Pop, 1973) Records: Rodna Mts., Moisei, Măgura Peak, 1000 m, 18.06.1997; Gutâi Mts., Breb, 450 m, 23.09.2005. (3)

TARDIGRADA

Eutardigrada

5. *Diphascon oculatum* Murray, 1906 Records: Maramureş Mts., Vişeu de Sus, Vaser, spring pin forest in the Mihoaia valley, 683 m, 22.05.2008.(13)
6. *Isohypsibus prosostomus* Thulin, 1928 Records: Maramureş Mts., Vişeu de Sus, Vaser, spring pin forest in the Mihoaia valley, 683 m, 22.05.2008. (13)
7. *Mesocrista spitsbergense* Richters, 1903 Records: Rodna Mts., Săcel, Iza spring pin forest, sphagnum bog, 1037 m, 20.05.2008; Rodna Mts., Săcel, Muced Lake, 1450 m, 20.05.2008. (13)

CRUSTACEA

Copepoda

8. *Hetercope saliens* (Lilljeborg, 1863) Records: Gutâi Mts. (Breb), Creasta Cocosului, 1050 m, 23.09.2005; Maramureş Mts.-Borşa-Băila Borşa, Stanchi spring, 1600 m, 26.06.2007.(9)

Malacostraca

9. *Gammarus leopoliensis* Jazdzewski et Konopacka, 1989 Records: Maramureş Mts., Borşa, Baia Borşa, Vinişor valley, 1032 m, 22.05.2007; Maramureş Mts., Poienile de sub Munte, Lutoasa valley, 868 m, 24.05.2007; Maramureş Mts., Poienile de sub Munte, Socolău valley, 825 m, 24.05.2007; Rodnei Mts., Săcel, Iza River, 20.05.2008; Maramureş Mts., Vişeu de Sus, Vasser valley, Şuligu, 862 m, 21.05.2008.(21)

CHILOPODA

Geophilomorpha

10. *Strigamia pusilla* (Sseliwanoff, 1884) Records: Rodna Mts., Borşa spering area of the Bistriţa Aurie beneath Gărgălău, 1688-1711 m, 03.09.2004.(4)

Myriapoda

11. *Geophilus oligopus* (Attems, 1895) Records: Igriş Mts., Piatra Săpânţa, Cabana Colibi, 832 m, 31.08.2004.(5)

COLLEMBOLA

Neanuridae

12. *Deutonura stachi* (Gisin, 1952) Records: Igriş Mts., Piatra, Săpânţa Valea Brazi, 02.09.2004.(6)
13. *Pseudachorutes corticicolus* (Schaffer, 1897) Records: Rodna Mts., Borşa piemont, 1200 m, 27.07.2004. (6)

Hypogastruridae

14. *Ceratophysella borealis* Martynova, 1977 Records: Rodna Mts., Borşa piemont, 700 m, 26.07.2004. (6)

15. *Ceratophysella granulata* Stach, 1949 Records: Rodna Mts., Borșa, Iezer, 1780 m, 26.07.2004. (6)

16. *Xenylla schillei* Börner, 1903 Records: Rodna Mts., Borșa piemont, 1200 m, 27.07.2004. (6)

Onychiuridae

17. *Hymenaphorus nova* Pomorski, 1990 Records: Rodna Mts., Borșa piemont, 1200 m, 27.07.2004. (6)

18. *Protaphorura subarmata* (Gisin, 1957) Records: Rodna Mts., Borșa, Iezer, 1780 m, 26.07.2004. (6)

19 *Protaphorura bicampata* (Gisin, 1956) Records: Igniș Mts., Brazilor bog peat bog with pine scrub, 800 m, 31.08.2004. (7)

Istomidae

20. *Desoria duodecemaculata* (Denis, 1927) Records: Rodna Mts., Borșa, Iezer, 1780 m, 26.07.2004. (6)

Katiannidae

21. *Sminthurinus bimaculatus* Axelson, 1902 Records: Rodna Mts., Borșa, Iezer, 1780 m, 26.07.2004. (6)

EPHEMEROPTERA

Chironomidae

22. *Rhithrogena carpatoalpina* Klonowska, Olechowska, Sartori, Weichselbaumer, 1987, Records: Maramureș Basin, Rona de Sus, Hera brook below the pass, Igniș Mts., Săpînța, Runcul, 31.08.2004; Desești, Stațiunea Izvoare and Poarta Roșie, 937 m and Mara River, 650 m, 01.09.2004. (10)

23. *Rhithrogena gorganica* Klapalek 1907 Records: Rodna Mts., Borșa, Stațiunea Borșa, Știol Mts. and Prislop Pass, 1544 m, 29.06.2005. Rodna Mts., Borșa, spring brook of the Bistrița Aurie, Gărgălău Peak, 1688 m, 29.06.2005; Borșa, Cimpoeș valley 1023 m, 23.05.2007. Maramureș Mts., Petrova Tomnatic Stream, 802 m, 25.05.2006. Maramureș Mts., Petrova Tomnatic, 25.05.2006; Baia Borșa Vinișor valley, 870 m, 22-24.05.2007; Baia Borșa, Bălăsâna stream, 1360 m, 22.05.2007; Poienile de sub Munte, Budescu valley, 821 m, 24.05.2007 and Lutoasa valley, 868 m, 24.0.2007, Socolău valley, 825 m, 24.05.2007. Igniș Mts., Desești, Stațiunea Izvoare, 1020 m, 24.09.2005 and 3 places, volcanic Plateau. Gutâi Mts., Breb, Creasta Cocoșului, 900 m, 23.09.2005 and 2 places Maramureș Basin, Sighetu Marmăției, Mociar, 369 m, 27.06.2005; Bârsana, Morii stream, 384 m, 24.05.2006. Țibleș Mts., Dragomirești, Baicu stream, 718 m, 24.05.2006 and Poeni valley, 901 m, 24.05.2006. (10)

24. *Ecdyonurus stramachi* Sowa, 1971 Records: Igniș Mts., Giulești, Brazi valley, 841 m, 02.09.2004. (10)

25. *Caenis pseudorivulorum* Keffermüller, 1960 Records: Igniș Mts., Desești, Mara river, 706 m, 02.09.2004. (10)

ORTHOPTERA

Phaneropteridae

26. *Isophya posthumoidalis* (Bazyluk, 1971) Records: Maramureşului Basin, Sighetu Marmăţiei, Mociar, 369 m, 27.05.2005; Crăciuneşti, Mohelca, 299 m, 28.06.2005; Câmpulung la Tisa, Tisa River, 235 m, 30.06.2005. (36)

PSOCOPTERA

Caeciliusidae

27. *Valenzuela despaxi* (Badonell, 1936) Records: Rodna Mts., Borşa, Staţiunea Borşa, 1377 m, 03.09.2004; Igriş Mts., Deseşti (Staţiunea Izvoare), 24.09.2005; Maramureş Basin, Rona de Sus, 504 m, 28.06.2005; Rodna Mts., Săcel (Iza Izvor), 900 m, 22.09.2005. (35)

Elipsocidae

28. *Elipsocus annulatus* Roesler, 1954 Records: Rodna Mts., Borşa, Staţiunea Borşa, 878 m, 28.06.2005. (35)

COLEOPTERA

Curculionoidea

29. *Smicronyx brevicornis* F. Sol – Wpal, Records: Maramureşului Basin, Bârsana, 8.09.1995. (30)
30. *Rhynchaenus horioni* Dieckm, Records: Maramureşului Basin, Moisei, 6km downstream, 21.08.1997. (30)

Staphylinidae

31. *Atheta malleus* Joy, 1913, Records: Maramureşului Mts., Poienile de sub Munte, Rica valley, 600 m, 16.07.2004. (17)
32. *Atheta volans* (Scriba, 1859), Records: Maramureş Basin, Sighetu Marmăţiei confluence of Tisa and Iza, 250 m, 11.06.2003. (17)
33. *Atheta tenuissima* Eppelsheim, 1892, Records: Vişeu River. (17)
34. *Eusphalerum alpinum obenbergeri* Zanetti, 1982, Records: Rodna Mts., Borşa, Izvorul Bistriţei, 1665-1710 m, 29.06.2005. (17)
35. *Omalium strigicollae* Wankowicz, 1869, Records: Rodna Mts., Borşa between Ştiol and Prislop Pass, 1544 m, 29.06.2005. (17)
36. *Philonthus micantoides* Berick Lohse, Records: Maramureş Basin, Bârsana, 02-09.07.1995, Săpânţa, Colibi, 880 m, 5-14.07.1996. (33)

Elateridae

37. *Adrastus kryshkali* Dolin, 1988, Records: Maramureş Basin, Valea Vişeuului, 360 m, 11.0.2007; Remeţi, Piatra, bank of Tisa, 210 m, 28.06.2007; Săpânţa, Livada, 400 m, 04.06.2008. (17)

Dasytidae

38. *Dasytes hickeri* Kaszab, 1955, Records: Săpânţa, Livada, Peri closter, 400 m, 04.06.2008. (17)

Cerambycidae

39. *Leiopus femoratus* Fairmaire, 1859, Records: Maramureş Basin, Sighetu Marmăţiei, Dobăieş, 400 m, 13.06.2006; from fruit trees, 07.06.2008. (17)

Apionidae

40. *Perapion lemoroi* (Ch. Brisout, 1880), Records: Maramureş Basin, Sighetu Marmăţiei, Dobăieş, 400 m, 03.06.2008. (17)

Curculionidae

41. *Acalles petryszaki* Dieckman, 1982, Records: Igriş Mts., Sighetu Marmăţiei (Piatra) Şorompău, 1000 m, 14.06.2006. (17)

42. *Brachiodontus reitteri* Weise, 1878, Records: Maramureş Mts., Borşa, Fântâna Stanchi, 1600 m, 26.07.2007. (17)

43. *Otiorhynchus repletus* Boheman, 1843, Records: Gutâi Mts., Breb, Izvorul de apă minerală, 700 m. (17)

44. *Rhinomias austriacus* (Reitter, 1894), Records: Maramureş Basin, Sighetu Marmăţiei, Dobăieş, 400 m. (17)

45. *Rhyncolus sculpturatus* Walzl, 1839, Records: Rodna Mts., Săcel, Valea Izei, stream valley, 05.06.2008. (17)

DIPTERA

Dolichopodidae

46. *Rhaphium quadrispinosum* (Strobl), Records: Maramureş Basin, Ieud, 4.07.1995.(22)

47. *Diaphorus deliquescens* Loew, Records: Maramureş Basin, Bârsana 3.07.1995, Năneşti, 10.07.1995.(22)

48. *Hercostomus separatus* d'Assis Fonseca, Records: Maramureş Basin, Strâmtura (rivulet Berşota) 3-9.07.1995.(22)

49. *Dolichopus lepidus* Staeger 1842, Records: Rodnei Mts., Săcel (Iza Spring) 6.07.1995.(22)

50. *Dolichopus subpennatus* d'Assis Fonseca 1976, Records: Maramureş Basin, Strâmtura (rivulet Berşota) 6.07.1995, Rodnei Mts., Săcel (Iza Spring) 6.07.1995.(22)

51. *Tachytrechus hamatus* Loew, Records: Igriş Mts., Tăul lui Dumitru, alt. 1100m. 7.07.1976 (23)

52. *Hercostomus angustifrons* (Staeger), Records: Igriş Mts., forest range Colibi, 8.07.1996, Poiana Brustan 6-13.07.1996.(23)

53. *Dolichopus flavipes* Stannius 1831, Records: Igriş Mts., Săpânţa, Colibi valley, forest range 5-12.07.1996. (23)

54. *Dolichopus signatus* Meigen 1824, Records: Igriş Mts., Săpânţa, Nireş 12.07.1996. (23)

55. *Rhaphium ensicorne* (Meigen 1824), Records: Maramureşului Mts., Repedea – Smerecenî 22.09.1997. (24)

56. *Rhaphium rivale* (Loew, 1869), Records: Maramureşului Mts., Repedea-Smerecenî, 22.06.1997.(24)

57. *Argyra spoliata* (Kowarz, 1878), Records: Maramureşului Mts., Repedea –Cârligătura, 26.06.1997.(24)

58. *Diaphorus halteralis* (Loew, 1869), Records: Maramureşului Mts., Repedea, 2.07.1997.(24)
59. *Rhaphium fasciatum* Meigen, 1824 Records: 19.07.1998.(28)
60. *Rhaphium longicorne* (Fallen, 1823), Records: Igriş Mts., Săpânţa, Colibia (forest range), 06-12.07.1996. (28)
61. *Melanostolus melancholicus* (Loew, 1896), Records: Igriş Mountains, 15.07.1998; 17.07.1998. (28)
62. *Chrysotus obscuripes* Zetterstedt, 1838, Records: Igriş Mountains, Giuleşti (Poiana Brazi, Tăul lui Dumitru), 07.07.1996. (28)
63. *Dolichopus phaeopus* Haliday in Walker 1851, Records: Rodnei Mts., Iza Izvor, 06.07.1995. (28)
64. *Dolichopus tanytrix* Loew 1869, Records: Igriş Mts., Giuleşti, Tăul lui Dumitru, 07.07.1996. (28)
65. *Dolichophorus kerteszi* Lichwardt, 1902 Records: 19.07.1998.(28)
66. *Medetera murina* Becker, Records: Cloşani, 19-20.06.1997.(29)

Empididae

67. *Hilara albitarsis* von Rozer, 1840, Records: Maramureş Mts., Repedea, poiana Smerecenii, swamp with Sphagnum in the freyfield, 7 km, upstream the Forest Range, 22.06.1997.(27)
68. *Hilara augustifrons* Strobl, 1892, Records: Igriş Mts., Săpânţa, Brustan Clearing, (near Colibi Forest Range), 06.12.1996. (27)
69. *Hilara albiventris* von Roser, 1840, Records: Maramureş Basin, Bârsana (sandy bank of Iza River), 03.08.1995.
Strâmtura, Berşota streamlet (heyfield in slop, in a deciduous forest), 03-09.07.1995. (27)
70. *Hilara pseudochorica* Strobl, 1892, Records: Maramureş Basin, Bârsana, 03.07.1995; Năneşti (the same biotope as in Bârsana), 10.07.1995. (27)
71. *Empis (s.str.) nuntia* Meigen, 1838, Records: Maramureşului Mts., Bistra, 28.06.1997; Rodnei Mts., Borşa, 20.08.1997. (27)
72. *Empis (s.str.) planetica* Collin, 1927, Records: Maramureş Mts., Repedea-Smerecenii, 22.06.1997; Rodna Mts. (Iezer Lake), 13.07.1995. (27)
73. *Empis (Copt.) impennis* Strobl, 1902, Records: Maramureşului Mts., Crasna Vişeu (Paltin), 25.06.1997.(27)
74. *Hilara apta* Collin, 1927, Records: Rodna Mts., Izvorul Izei, 17.06.1998.(25)
75. *Hilara canescens* Zetterstedt, 1849, Records: Maramureş Basin, Bistra, 21.07.1998(25)
76. *Hilara ritidorella* Chvala, 1996, Records: Igriş Mts.Tătarul Gorges, 21.06.1998; Chalet Pleşca – Pârâul Roşu, 22.07.1998(25)
77. *Hilara lasiopa* Strobl, 1892, Records: Igriş Mts., Săpânţa, Colibi, 05-12.07.1996(25)
78. *Hilara morata* Collin, 1927, Records: Maramureş Basin, Bistra, 22.06.1997. (25)

79. *Hilara obscura* Meigen, 1822, Records: Igriş Mts., Tătarul Gorges, 19.07.1998; Sârbi, 19.07.1998; Resort Izvoarele, 23.07.1998. (25)
80. *Hilara griseifrons* Collin 1927, Records: Igriş Mts., Maramureş Mts., Repedeă clearing Semerceni, 22.08.1997 (Resort Izvoarele (7 km downstream), 23.07.1998. (25)
81. *Chelifera astigma* Collin, 1927, Records: Igriş Mts., Resort Izvoarele (1 km downstream), 23.07.1998 (25)

Syrphidae

82. *Lejogaster nigricans* (Stack, 1922), Records: Maramureş Mts., Repedeă – Poiana Smerecenii, 22.06.1997. (2)
83. *Myolepta ruficornis* (Zetterstedt, 1843), Records: Maramureş Basin, Crasna Vişeuului, 23-29.08.1997. (2)
84. *Orthonevra intermedia* (Lundt, 1916), Records: Maramureş Basin, Bârsana, 03.07.1995; Igriş Mts., Săpânţa – Poiana Nireş, 06-10.07.1996; Records: Maramureş Mts., Repedeă – Poiana Smerecenii, 22.06.1997; Baia Borşa, Bălăsâna Valley, 21.08.1997. (2)
85. *Liochrysogaster przewalskii* (Stack, 1924), Records: Igriş Mts., Săpânţa – Poiana Nireş, 11.06.1996. (2)

Mycetophilidae

86. *Mycomya levis* (Dziedzicki, 1885) (pseudocinerascens Strobl, 1901), Records: Maramureş Mts., Clearing Smerecenii, 21.08.1997. (26)
87. *Mycomya maura* (Walker, 1856) Records: Maramureş Basin, Strâmtura, Berşotă stream, 03.07.1995 (26)
88. *Mycomya pectinifera* (Edwards, 1924): Records: Maramureş Basin, Mara (2 km upstream, right), 18.07.1998. (26)
89. *Mycomya tenuis* (Walker, 185) Records: Maramureş Basin, Rona de Sus, 21.07.1998. (26)
90. *Mycomya trilineata* (Zetterstedt, 1838) Records: Maramureş Mts., Baia Borşa (4 km upstream on Bălăsâna river), 21.07.1997. Igriş Mts., Pleşca – Pârâul Roşu, 22.07.1998. (26)
91. *Mycomya vittiventris* (Zetterstedt, 1852) Records: Maramureş Mts., Baia Borşa (4 km upstream on Bălăsâna river), 02.1997, Repedeă – Clearing Smerecenii, 22.08.1997. (26)
92. *Noempheria winnertzi* (Edwards, 1913) Records: Maramureş Basin, Bistra, 28.06.1997. (26)
93. *Acnemia nitidocollis* (Meigen, 1818) Records: Igriş Mts., Pleşca – Pârâul Roşu, 23.07.1998 (26)
94. *Leptomorphus* (s.str.) *quadrimaculatus* (Matsumura, 1916) Records: Maramureş Mts., Repedeă – Clearing Smerecenii, 22.08.1997. (26)
95. *Sciophola varia* (Winnertz, 1863) Records: Igriş Mts., Izvoarele Resort (1 km downstream), 23.07.1997. (26)
96. *Boletina basalis* (Meigen, 1818) Records: Maramureş Basin, Bistra (on the streamlet bank), 21.07.1998; Igriş Mts., Pleşca – Pârâul Roşu,

- 22.07.1991; Maramureş Mts., Repedea – Clearing Smerecenii, 22.08.1997. (26)
97. *Boletina gripha* (Dziedzicki, 1885): Records: Maramureş Mts., Repedea – Clearing Smerecenii, 22.08.1997. (26)
98. *Boletina lundbecki* Lundstrom, 1912, Records: Rodna Mountains, 1380 m, 11.07.1995. (26)
99. *Boletina moravica* Landrock, 1912 Records: Igriş Mts., Pleşca- Pârâul Roşu, 22.07.1998. (26)
100. *Grzegorzekia collaris* (Meigen, 1818) Records: Maramureş Mts., Repedea – Clearing Elmo, 24.06.1997, Igriş Mts., Izvoarele Resort (7 km downstream), 23.07.1998. (26)
101. *Docosia fuscipes* (von Roser, 1840) Records: Rodna Mountains – Laboratory house (about 1400 m), 14.09.1995. (26)
102. *Docosia moravica* Landrock, 1916 Records: Rodna Mountains – Laboratory house, 11.07.1995. (26)
103. *Leia maculosa* (Strobl, 1900) Records: Maramureş Basin, Rona de Sus, 20-21.07.1998. Maramureş Basin, Moisei (6 km downstream), 21.08.1997. (26)
104. *Rondaniella dimidiata* (Meigen, 1804) Records: Maramureş Basin, Bistra, 28.06.1997. (26)
105. *Dynatostoma majus* Landrock, 1912, Records: Igriş Mts., Izvoarele Resort (7 km downstream), 23.07.1998. (26)
106. *Dynatostoma reciprocum* (Walker, 1848) Records: Igriş Mts., Chalet Pleşca – Pârâul Roşu, 22.07.1998. (26)
107. *Mycetophila caudata* Staeger, 1840, Records: Igriş Mts., Chalet Pleşca – Pârâul Roşu, 22.07.1998. (26)
108. *Mycetophila gibbula* Edwards, 1925 Records: Igriş Mts., Izvoarele Resort (7 km downstream), 23.07.1998. (26)
109. *Mycetophyla hetshkoi* Landrock, 1918, Records: Igriş Mts., Izvoarele Resort (7 km downstream). (26)
110. *Mycetophyla zetlerstedii* Lundstrom, 1906, Records: Igriş Mts., Izvoarele Resort, 23.07.1998. (26)
111. *Phronia flavipes* Winnertz, 1863, Records: Igriş Mts., Izvoarele Resort (7 km downstream), 07.1998. (26)
112. *Platurocypta fumipennis* (Bukowski, 1934) Records: Igriş Mts., Izvoarele Resort (7 km downstream), 23.07.1998. (26)
113. *Platurocypta punctum* (Stannius, 1831) Records: Maramureş Basin, Strâmtura – Pod, 3-9.07.1995, Izvoarele Resort (7 km downstream), 23.07.1998. (26)
114. *Platurocypta testata* (Edwards, 1925) Records: Maramureş Basin, Strâmtura – Pod, 3-9.07.1995, Igriş Mts., Izvoarele Resort (7 km downstream), 23.07.1998. (26)
115. *Trichonta conjugens* Lundstrom, 1909 Records: Igriş Mts., Izvoarele Resort (1 km downstream), 23.07.1998. (26)

116. *Trichonta foeda* Loew, 1869 Records: Maramureş Basin, Bistra, 07.1998. (26)
117. *Trichonta fusca* Landrock, 1918 Records: Igriş Mts., Izvoarele Resort (7 km downstream), 23.07.1998. (26)
118. *Trichonta vitta* (Meigen, 1830) (=nigritula Edwards, 1925) Records: Rodna Mountains – Laboratory house (about 1400 m), 14.09.1995. (26)
119. *Cordyla fusca* Meigen, 1804 Records: Maramureş Basin, Călineşti – Văleni (La Săcătură), 8.07.1995.(26)
120. *Exechia pseudocincta* Srobl, 1910 Records: Maramureş Basin, Ruscova, the confluence Ruscova 20.08.1997. (26)

HOMOPTERA

Cicadeliidae

121. *Psammotettix nardeli* Remane, 1965, Records: Rodna Mts., Borşa, Staţiunea Borşa, Poiana Ştiol, 1500 m, 29.07.2002; Maramureş Mts., Borşa, Vf. Cercănel, 1400-1800 m, 30.07.2002; Rodna Mts., Borşa, Vf. Gărgălău, 1900-2100 m, 31.07.2002; Rodna Mts., Borşa, Vf. Gărgălău, 2100 m, 02.06.2002.(19)
122. *Streptanus confinis* (Reuter, 1880), Records: Maramureş Mts., Borşa, Vf. Cercănel, 1400-1800 m. 30.07.2002. (19)

HETEROPTERA

Pentatomidae

123. *Aeglia klugii* Hahn, 1833, Records: Igriş Mts., Sighetu Marmăţiei, Piatra Țiganului, 1200 m, 21.09.2005 and Rodna Mts., Borşa, Staţiunea Borşa, 1000-1200 m, 02.08.2002.(32)

Miridae

124. *Stenodema (Brachyopis) trispinosa* (Reuter), Records: Maramureş Basin, Valea Slătiorii, grass en the left river of the rivulet Berşota 3.07.1995.(34)
125. *Adelphocoris josifovi* E. Wagner Records: Maramureş Basin, Bârsana – Onceşti 10.07.1995. (34)
126. *Orthotylus (s. str.) interpositus* (Schmidt), Records: Maramureş Basin, Bârsana 5.07.1995. (34)

ACARI

Zerconidae

127. *Prozercon similis* Balan, 1992, Records: Igriş Mts., Staţiunea Izvoare, Tăul lui Dumitru, 1143 m, 31.08.2004. (11)

Macrochelidae

128. *Macrocheles opacus* (C.L. Koch, 1839), Records: Igriş Mts., Sighetu Marmăţiei, Piatra, Şugău Valley, 20.09.2005. (11)

Unodinychidae

129. *Uroobovella flagelliger* (Berlese, 1910), Records: Igriş Mts., Staţiunea Izvoare, mesa Valhani, 1020 m, 24.09.2005. (11)

Brachychthoniidae

130. *Liochthonius strenzkei* Forsslund, 1964, Records: Localities: Igriş Mts., Vadul Izei, Piatra, Bârlan, 450 m, 20.09.2005. Rodna Mts., Săcel, Iza River, 700 m, 22.09.2005. Gutâi Mts., Breb, Creasta Cocoşului, 1050 m, 23.09.2005. (14)

131. *Sellnickochthonius immaculatus* (Forsslund, 1942), Records: Igriş Mts., Vadul Izei, Piatra, Bârlan, 450 m, 20.09.2005. (14)

132. *Sellnickochthonius subcricoides* (Balogh et Mohunko, 1979), Records: Gutâi Mts., Breb, 625 m, 23.09.2005. (14)

Hermaniidae

133. *Hermannia convexa* (C.L. Koch, 1839), Records: Maramureş Basin, Rona de Sus, Hera, Zalom valley, 504 m, 28.06.2005; Igriş Mts., Staţiunea Izvoare, Cheile Tătarului, 738 m, 01.09.2004. (14)

Damaeidae

134. *Adamaeus onustus* (C.L. Koch, 1835), Records: Maramureş Basin, Rona de Sus, Hera hills, Zalom valley, 450 m, 20.09.2005. (14)

Carabodidae

135. *Carabodes subarcticus* Trägårdh, 1902, Records: Maramureş Basin, Rona de Sus, Hera hills, Zalom valley, 504 m, 28.06.2005. (14)

Suctobelbidae

136. *Suctobelba discrepans* Moritz, 1970, Records: Rodna Mts., Borşa, Staţiunea Borşa, 878-1022 m, 28.06.2005. (14)

137. *Suctobelbata prelli* (Märkel et Meyer, 1958), Records: Rodna Mts., Borşa, Staţiunea Borşa, 878-1022 m, 28.06.2005. (14)

Oribatulidae

138. *Liebstadia willimanni* Miko et Weigmann, 1996, Records: Rodna Mts., Borşa, Staţiunea Borşa, 878-1022 m, 28.06.2005; Gutâi Mts., Breb, 625 m, 23.09.2004. (14)

139. *Phauloppia lucorum* (C.L. Koch, 1841), Records: Gutâi Mts., Breb, 625 m, 23.09.2004. (14)

Ceratozetidae

140. *Ceratozetes parvulus* Sellnick, 1922, Records: Igriş Mts., Piatra M., Sighetu Marmaţiei, Vf. Țiganu, 1200 m, 21.09.2005. (14)

Limnozetestidae

141. *Limnozetestes ciliatus* (Schränk, 1803), Records: Rodna Mts., Săcel Muched Lake, 1225 m, 22.09.2005. (14)

In conclusion we can note the distinct results of research conducted during 1994-2009 in Maramureş, pointing and describing the 12 invertebrate species that are new to science and enrich Romania's invertebrate species list with 141 taxa.

These data also show the high biodiversity of the area and lack of systematic investigations of invertebrates in Maramures.

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