

First records of mesostigmatid mite species (Acarina) in Slovakia

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Microgyniina: Microgyniidae Trägårdh, 1942

Microsejus truncicola Trägårdh, 1942

Material examined: C Slovakia, Poľana Mts, Hriňová, Zadná Poľana National nature reserve (NNR) (7382 = grid reference number of Databank of the fauna of Slovakia), spruce forest, 11.IX.1997, 2 ♀♀, found in decaying wood (leg. et det. P. MAŠÁN – also all next examined material). First record of the genus from Slovakia.

Antennophorina: Celaenopsidae Berlese, 1892

Pleuronectocelaeno austriaca (Vitzthum, 1926)

Material examined: NE Slovakia, Bukovské vrchy Mts, Nová Sedlica village, Riaba skala NNR (6900), beech forest, 19.IX.1998, 1 ♀, found in decaying wood. First record of the genus from Slovakia.

Pleuronectocelaeno barbara barbara Athias-Henriot, 1959

Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 22.IV.1991, 6 ♀♀, 2 ♂♂, found under bark and in decaying wood. First record from Slovakia.

Gamasina: Pachylaelapidae Vitzthum, 1931

Sphaerolaelaps holothyroides (Leonardi, 1896)

Material examined: W Slovakia, Považský Inovec Mts, Lúka village env. (7373), forest-steppe, 12.V.1991, 5 ♀♀, found under stone, associated with *Lasius flavus* (Fabricius, 1781) (Hymenoptera); SW Slovakia, Malé Karpaty Mts, Bratislava, Lištiny env. (7868), oak forest, 31.V.1994, 5 ♀♀, found under bark, associated with *Lasius flavus* (Hymenoptera). First records of the genus from Slovakia.

Hypoaspidae Vitzthum, 1941

Hypoaspis (Cosmolaelaps) aciphila Karg, 1987

Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), mixed deciduous forest, 7.IV.1995, 2 ♀♀, found under bark, associated with *Lasius flavus* (Hymenoptera). First record from Slovakia.

Hypoaspis (Cosmolaelaps) cuneifer (Michael, 1891)

Material examined: W Slovakia, Trnavská pahorkatina hills, Brunovce village env. (7373), floodplain forest, 27.IV.1997, 14 ♀♀, found under bark, associated with *Formica fusca* Linnaeus, 1758 (Hymenoptera). First record from Slovakia.

Hypoaspis (Cosmolaelaps) neocuneifer Evans et Till, 1966

Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 22.IV.1991, 1 ♂, found under stone, associated with *Formica* sp. (Hymenoptera). First record from Slovakia.

Hypoaspis (Geolaelaps) brevipilis Hirschmann, 1969

Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Mokry jarok env. (7867), mixed deciduous forest, 9.VIII.1990, 1 ♀, found under bark. First record from Slovakia.

Hypoaspis (Pneumolaelaps) breviseta Evans et Till, 1966

Material examined: W Slovakia, Považský Inovec Mts, Lúka village env. (7373), steppe, 2.VII.1994, 1 ♀, associated with *Bombus* sp. (Hymenoptera). First record from Slovakia.

Hypoaspis (Pneumolaelaps) montana (Berlese, 1904)

Material examined: W Slovakia, Považský Inovec Mts, Lúka village env. (7373), meadow, 5.V.1991, 6 ♀♀, found in ant-hill of *Formica pratensis* Retzius, 1783 (Hymenoptera). First record from Slovakia.

Hypoaspis (Holostaspis) isotricha (Kolenati, 1858)

Material examined: SW Slovakia, Malé Karpaty Mts,

Horné Orešany village, Majdán env. (7570), mixed deciduous forest. 13.VI.1994, 10 ♀♀, 3 ♂♂, found under bark, associated with *Camponotus* sp. (Hymenoptera). First record from Slovakia.

Hypoaspis (Holostaspis) oophila (Wasman, 1897)
Material examined: SW Slovakia, Podunajská rovina lowland, Svätý Jur village, Šúr Nature reserve (NR) (7769), forest-steppe, 29.IV.1991, 9 ♀♀, found in ant-hill of *Formica pratensis* (Hymenoptera). First record from Slovakia.

Ameroseiidae Evans, 1963

Ameroseius longitrichus Hirschmann, 1963
Material examined: SW Slovakia, Podunajská rovina lowland, Šurany village env. (8070), floodplain forest, 24.IV.1997, 3 ♀♀, found under bark. First record from Slovakia.

Proctolaelaps brevipilis Westerboer, 1963
Material examined: SW Slovakia, Podunajská rovina lowland, Svätý Jur village, Šúr NR (7769), forest-steppe, 2.VI.1994, 2 ♀♀, associated with *Cerambyx cerdo* Linnaeus, 1758 (Coleoptera). First record from Slovakia.

Proctolaelaps fiseri Samšínák, 1960
Material examined: NE Slovakia, Bukovské vrchy Mts, Topoľa village env. (6900), mixed deciduous forest, 4.VI.1997, 1 ♀, found under bark, associated with erotylid beetle (Coleoptera, Erotylidae non det.). First record from Slovakia.

Garmaniella eccoptogasteris (Vitzthum, 1923)
Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 22.IV.1991, 1 ♀, found under bark, associated with erotylid beetle (Coleoptera, Erotylidae non det.). First record of the genus from Slovakia.

Garmaniella longisetosa (Postner, 1951)
Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 7.IV.1995, 7 ♀♀, associated with *Bombus* sp. (Hymenoptera); W Slovakia, Považský Inovec Mts, Lúka village env. (7373), forest-steppe, 27.IV.1997, 3 ♀♀, found in ground nest of *Bombus* sp. (Hymenoptera). First records from Slovakia.

Garmaniella ornata (Postner, 1951)
Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 7.IV.1995, 1 ♀, associated with *Bombus* sp. (Hymenoptera); W Slovakia, Považský Inovec Mts, Lúka village env. (7373), forest-steppe, 27.IV.1997, 2 ♀♀, found in the ground nest of *Bombus* sp. (Hymenoptera). First records from Slovakia.

Podocinidae Berlese, 1916

Podocinum pacificum Berlese, 1895
Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 7.IV.1995, 2 ♀♀, found in decaying wood, associated with *Dorcus parallelipedus* Linnaeus, 1758 (Coleoptera). First record of the genus from Slovakia.

Lasioseius inconspicuus Westerboer, 1963
Material examined: SW Slovakia, Podunajská rovina lowland, Svätý Jur village, Šúr NR (7769), forest-steppe, 29.IV.1991, 1 ♀, found in decaying wood. First record from Slovakia.

Ascidae Oudemans, 1905

Leioseius elongatus Evans, 1958
Material examined: W Slovakia, Považský Inovec Mts, Kálnica village env. (7273), beech forest, 7.IV.1991, 1 ♀, found in decaying wood. First record from Slovakia.

Halolaelapidae Karg, 1965

Leitneria granulata (Halbert, 1923)
Material examined: W Slovakia, Strážovské vrchy Mts, Zliechov village, Strážov NNR (7076), beech forest, 25.III.1999, 1 ♀, found in soil and wood detritus. First record of the genus from Slovakia.

Rhodacaridae Oudemans, 1902

Rhodacarus clavulatus Athias-Henriot, 1961
Material examined: SW Slovakia, Borská nížina lowland, Záhorská Ves village env. (7667), pine forest, 4.VIII.1999, 2 ♀♀, found in the ground nest of *Bombus* sp. (Hymenoptera). First record from Slovakia.

Punctodendrolaelaps punctatulus (Hirschmann, 1960)
Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 1.V.1997, 1 ♀, found under bark. First record from Slovakia.

Insectolaelaps quadrisetus (Berlese, 1920)
Material examined: NW Slovakia, Malá Fatra Mts, Martin, Podstráne env. (6979), spruce forest, 23.VI.1993, 4 deutonymphs, found in feromone trap on *Ips typographus* (Coleoptera). First record of the genus from Slovakia.

Sessiluncus hungaricus Karg, 1964
Material examined: SW Slovakia, Podunajská rovina lowland, Dobrohošť village env. (8070), floodplain forest, 24.V.1994, 1 ♀, 1 ♂, found in soil detritus. First record of the genus from Slovakia.

Parasitidae Oudemans, 1901

Amblygamasus mirabilis Willmann, 1951

BIOLOGICKÁ POUČKA

Prírodovedecké štúdiá

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Material examined: W Slovakia, Považský Inovec Mts, Lúka village env. (7373), forest-steppe, 12.V.1991, 1 ♂, found under stone. First record of the genus from Slovakia.

Leptogamasus bidens (Sellnick, 1951)

Material examined: W Slovakia, Považský Inovec Mts, Lúka village env. (7373), forest-steppe, 12.V.1991, 1 ♀, found under stone. First record from Slovakia.

Leptogamasus alstoni (Bhattacharyya, 1963)

Material examined: W Slovakia, Považský Inovec Mts, Lúka village env. (7373), forest-steppe, 12.V.1991, 2 ♂♂, found under stones. First record from Slovakia.

Lysigamasus crassicornutus Willmann, 1954

Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Železná studienka env. (7768), beech forest, 1.V.1991, 2 ♀♀, found in detritus of decaying wood. First record from Slovakia.

Eugamasus crassitarsis (Halbert, 1923)

Material examined: SW Slovakia, Malé Karpaty Mts, Bratislava, Líštiny env. (7868), orchard, 8.III.1997, 1 ♀, found in soil and wood detritus. First record from Slovakia.

Veigaiidae Oudemans, 1939

Gamasolaelaps tuberculatus Bregetova, 1961

Material examined: SW Slovakia, Podunajská rovina lowland, Šuľany village env. (8070), floodplain forest, 24.IV.1997, 1 ♀, found under bark. First record from Slovakia.

The material examined in this study was identified according to BREGETOVA et al. (1977) and KARG (1993).

References

- BREGETOVA, N. G., VAINSHTEIN, B. A., KADITE, B. A., KOROLEVA, E. V., PETROVA, A. D., TIKHOMIROV, S. I. & SHCHERBAK, G. I. 1977. Opredelitel' obitayushchikh v pochve kleshchei - Mesostigmata. Izd. Nauka, Leningrad, 718 pp.
- KARG, W. 1993. Acari (Acarina), Milben Parasitiformes (Anactinochaeta), Cohors Gamasina Leach, Raubmilben. In: Die Tierwelt Deutschlands und der angrenzenden Meeresteile nach ihren Merkmalen und nach ihrer Lebensweise, 59. Teil, 2., überarbeitete Auflage, Gustav Fischer Verlag, Jena, Stuttgart, New York, 523 pp.

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