

## **A check-list of Latvian Gamasina mites (Acari, Mesostigmata) with short notes to their ecology**

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### **Abstract**

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Numerous investigations on Gamasina mites (Acari, Mesostigmata) fauna have been made in Latvia during the second half of the 20<sup>th</sup> century. There were observed and published data on various free-living species and parasites, predators and phytophagous gamasins; from wildlife, as well from greenhouses. Altogether 247 Gamasina species have been registered in the territory of Latvia.

**Key words:** Gamasina, free-living mites, ectoparasitic mites, phytophagous mites, Latvia.

### **Introduction**

The first investigations of the Latvian Gamasina mites' fauna were made by A. E. Grube in the last century (Grube, 1859). A lot of diverse habitats have been investigated and altogether 247 species recorded ever since more intensive work on Gamasina mites was started in late 1950-s.

Investigations have been started by V. Eglitis (1954, 1972), many works made by I. Lapina (1956; 1959; 1963; 1970; 1971-a; 1971-b; 1973; 1976-a; 1976-b; 1976-c; 1979; 1988), as well several works done in relation to the ectoparasites of small mammals and rodents (Andersone, 1963; Grinbergs, 1959; Grinbergs, 1961-a; Grinbergs, 1961-b; Grinbergs, 1961-c; Grinbergs, 1961-d). Numerous investigations have been done in relation to Gamasina mites of the family Phytoseiidae (Kuznetsov, Petrov 1984; Petrova, Petrov, 1971; Petrova et al., 1997; Petrova et al., 2000; Prieditis, 1966). In addition, B. Kadite (Lithuania) made some investigations on Gamasina fauna of the coastal habitats of Latvia (Eitminavichute, 1976), as well several works were made since 1991 by the author (Melecis et al., 1994; Paulina, Salmane, 1996; Paulina, Salmane, 1999; Petrova et al. 1998; Petrova, Salmane, 2000; Salmane, 1996; Salmane et al., 1999; Salmane, 1999; Salmane, 2000-a; Salmane, 2000-b).

Five Gamasina species (*Parasitus lunulatus*, *P. robustus*, *Lasioseius ometes*, *Dendrolaelaps strenzkei* and *Pachylaelaps dubius*) found by the author and one species

*Proctolaelaps bickleyi* found by V. Petrova (personal communication) are published for the first time.

### List of Gamasina species and notes on their ecology

Family PARASITIDAE Oudemans, 1901

*Parasitus (Eugamasus) kraepelini* Berlese, 1903 - forests, coastal and inland meadows, bogs, gardens, washed ashore material, *Acer spp.*, dunes.

*P. (E.) oudemansi* Berlese, 1903 – spruce stands.

*P. (E.) loricatus* (Wankel, 1861) – mixed forests.

*P. (E.) magnus* Krämer, 1876 – litter.

*P. (E.) lunulatus* (Müller, 1859) - gardens

*P. (Parasitus) fucorum* (De Greer, 1778) – Coleoptera spp., *Bombus spp.*

*P. (P.) numismaticus* Vitzthum, 1930 – inland meadows.

*P. (Vulgarogamasus) remberti* (Oudemans, 1912) – spruce forests, inland meadows.

*P. (V.) halophilus* (Sellnick, 1957) – washed ashore material, coastal meadows, dunes.

*P. kempersi* Oudemans, 1902 – coastal meadows, washed ashore material, dunes.

*P. (Coleogamasus) lunaris* Berlese, 1906 – agroecosystems, forests, inland and coastal meadows, washed ashore material.

*P. (C.) fimetorum* Berlese, 1903 – forests, agroecosystems, inland and coastal meadows, washed ashore material, nests of wild birds.

*P. (C.) celer* (C. K. Koch, 1835) – agroecosystems, inland and coastal meadows, dunes, spruce stands, bogs, Coleoptera spp.

*Gamasodes spiniger* (Trägårdh, 1910) – inland meadows, agroecosystems.

*G. bispinosus* (Halbert, 1915) – washed ashore material

*Poecilochirus necrophori* Vitzthum, 1930 - inland meadows, agroecosystems, on the *Silphidae* sp.

*P. subterrancus* (Müller, 1860) – small mammals.

*Holoparasitus excipuliger* (Berlese, 1905) – forests, inland and coastal meadows, agroecosystems, bogs, dunes, *Acer spp.*

*Pergamasus crassipes* (Linnaeus, 1758) - forests, agroecosystems, inland and coastal meadows, bogs, dunes, washed ashore material, *Acer spp.*, nests of wild birds.

*P. septentrionalis* (Oudemans, 1902) – agroecosystems, forests, calcareous bog, inland and coastal meadows, dunes, bogs.

*P. holzmannae* Micherdzinsky, 1969 – forests, bogs, *Acer spp.*

*P. brevicornis* Berlese, 1903 – pine forests.

*P. quisquilarum* (Canestrini, 1882) – agroecosystems, birch stands.

*P. robustus* (Oudemans, 1902) – inland meadows, gardens.

*P. mirabilis* Willmann, 1951 – spruce stands, fields.

*P. runcatellus* (Berlese, 1903) – spruce stands, pine forests.

*P. oxygynelloides* Karg, 1968 – pine forests.

*P. similis* Willmann, 1953 – pine forests.

*P. vagabundus* Karg, 1968 – forests, agroecosystems, inland and coastal meadows, bogs, washed ashore material, dunes, *Acer spp.*, nests of wild birds.

- P. lapponicus* Trägårdh, 1910 – forests, bogs, agroecosystems, inland and coastal meadows, washed ashore material, *Acer spp.*, dunes.
- P. teutonicus* Willmann, 1956 – forests, coastal and inland meadows, dunes, bogs, agroecosystems, *Acer spp.*
- P. suecicus* (Trägårdh, 1936) – mixed and deciduous forests, beech forest, inland meadows, fields, gardens.
- P. parrunciger* Bhattacharyya, 1963 – inland meadows, deciduous forests.
- P. misellus* Berlese, 1904 – inland meadows.
- P. wasmanni* (Oudemans, 1902) – forests, fields, inland and coastal meadows, dunes, gardens, bogs.
- P. truncus* Schweizer, 1961 – coastal meadows.
- P. robustus* (Oudemans, 1902) - mosses under the walnut-trees, deciduous forest

Family VEIGAIIDAE Oudemans, 1939

- Veigaia nemorensis* (C. L. Koch, 1839) – forests, inland and coastal meadows, washed ashore material, dunes, agroecosystems, bogs, calciferous bog, *Acer spp.*
- V. cervus* (Krämer, 1876) – forests, coastal and inland meadows, dunes, agroecosystems, bogs.
- V. exiqua* (Berlese, 1917) – forests, inland and coastal meadows, agroecosystems, bogs, washed ashore material.
- V. kochi* (Trägårdh, 1901) – mixed and coniferous forests, bogs, calcareous meadow, dunes.
- Gamasolaelaps tuberculatus* Bregetova, 1961 – mixed forests.
- G. excisus* (C. L. Koch, 1879) – coastal and calcareous inland meadows, washed ashore material.

Family AMEROSEIIDAE (Berlese, 1919) Evans, 1961

- Ameroseius corbicula* (Sowerby, 1806) – forests, inland and coastal meadows, fields, bogs.
- A. insignis* Bernhard, 1963 – coastal meadows.
- Epicriopsis horridus* (Krämer, 1876) – mixed forests, agroecosystems, inland and coastal meadows.

Family ACEOSEIIDAE Baker et Wharton, 1952 (sensu Evans, 1958)

- Aceoseius muricatus* (C. L. Koch, 1839) – banks of ditches.
- Neojordensia levis* (Oudemans et Voigts, 1904) – forests, inland and coastal meadows, agroecosystems, washed ashore material, wet habitats, nests of wild birds.
- Lasioseius youcefi* Athias-Henriot, 1959 – agroecosystems, inland and coastal meadows, spruce stands, bogs, mosses, nests of wild birds.
- L. furcisetus* Athias-Henriot, 1959 – mixed and deciduous forests, banks of ditches.
- L. ometes* (Oudemans, 1903) – gardens.
- Lasioseius* nov. spec. (subgenus *Criniacus* Karg, 1980) – washed ashore material.
- Platyseius italicus* (Berlese, 1905) – dunes, bogs.
- Cheiroseius serratus* (Halbert, 1915) – agroecosystems, birch stands, calcareous bogs and meadows, bogs, coastal meadows.
- Ch. borealis* (Berlese, 1904) – coastal and inland meadows, agroecosystems, forests, bogs, washed ashore material, *Acer spp.*, nests of wild birds.

- Ch. necorniger* (Oudemans, 1903) (= *curtipes* (Halbert, 1923) – agroecosystems, calcareous bog, coastal meadows, washed ashore material.
- Ch. viduus* C. L. Koch, 1839 – coastal meadows, dunes.
- Ch. unguiculatus* Berlese, 1887 – coastal meadows.
- Leioseius minusculus* (Berlese, 1905) – coastal and inland meadows, dunes, fields, pine and deciduous forests, nests of wild birds.
- L. montanulus* Hirschmann, 1963 – inland meadows, dunes, pine forests.
- L. bicolor* (Berlese, 1918) – agroecosystems, forests, inland and coastal meadows, washed ashore material, dunes.
- L. (Arctoseius) stammeri* Bernhard, 1863 – fields.
- L. (A.) longispinosus* Hirschmann, 1963 – fields.
- L. (A.) halophilus* (Willmann, 1949) – agroecosystems, washed ashore material, dunes, coastal meadows.
- L. (A.) minutus* (Halbert, 1915) – inland and coastal meadows, agroecosystems, washed ashore material, dunes.
- L. (A.) semiscissus* (Berlese, 1892) – agroecosystems, pine forests, coastal meadows, washed ashore material, dunes.
- L. insignis* Hirschmann, 1963 – inland meadows, dunes, washed ashore material.
- Iphidozercon venustus* (Berlese, 1917) – nests of wild birds, banks of ditches, pine forests.
- Proctolaelaps pygmaeus* (Müller, 1860) – fields, nests of wild birds.
- Melichares juradeus* Schweizer, 1949 – forests.
- Paragarmania dentriticus* (Berlese, 1918) – in the culture of *Aphidius* sp.
- Blattisocius tarsalis* (Berlese, 1918) – in the culture of *Sitotroga* sp.
- Proctolaelaps cyllodi* Samsinak, 1960 – in the culture of *Pleurotus ostreatus*.
- P. bickleyi* (Bram, 1956) - *Fragaria* spp.

#### Family PHYTOSEIIDAE Berlese, 1916

- Typhlodromus cotoneastri* Wainstein, 1961 – *Malus* spp.
- T. tiliae* Oudemans, 1929 - *Malus* spp., *Rubus* spp., grasses.
- T. timidus* Schuster, 1959 - *Malus* spp.
- Anthoseius rhenans* Oudemans, 1905) - *Malus* spp.
- A. clavatus* Wainstein, 1972 – *Malus* spp., grasses.
- A. caudiglans* (Schuster, 1959) - *Malus* spp., *Rubus* spp., grasses.
- A. rapidus* Wainstein et Arutunjan, 1968 – *Betula* spp., *Quercus* spp.
- Paraseiulus soleiger* (Ribaga, 1902) – wild plants.
- P. incognitus* Wainstein et Arutunjan, 1967 - *Malus* spp.
- Phytseiulus persimilis* Athias-Henriot, 1957 – introduced in greenhouses as predator on various pests.
- Amblyseius finlandicus* (Oudemans, 1915) - *Malus* spp., *Acer* spp., various bushes, litter.
- A. obtusus* C. L. Koch, 1839) – *Pinus* spp., *Acer* spp., *Rubus* spp., *Vaccinium* sp., grasses, litter, washed ashore material, dunes, coastal meadows.
- A. meridionalis* (Berlese, 1914) – *Pinus* spp., *Juniperus communis*, mosses, coastal meadows, dunes.
- A. herbarius* Wainstein, 1960 – *Corylus avellana*, *Fragaria* spp., dunes.
- A. subsolidus* Begljarov, 1960 – *Malus* spp., various plants and trees.

- A. rademacheri* Dosse, 1958 - *Acer spp.*, *Alnus spp.*, *Juniperus communis*, grasses, coastal meadows.
- A. graminis* Chant, 1956 - *Juniperus communis*, grasses, coastal meadows, dunes.
- A. astatus* (Begljarov, 1960) - *Rubus spp.*
- A. okanagensis* (Chant, 1957) - *Rubus spp.*, *Alnus spp.*
- A. messor* Wainstein, 1960 - *Rubus spp.*, *Alnus spp.*, coastal meadows, dunes.
- A. bicaudus* Wainstein, 1962 - *Fragaria spp.*, grasses, dunes, washed ashore material, coastal meadows.
- A. aurescens* Athias-Henriot, 1961 - *Sorbus spp.*, *Fragaria spp.*, coastal meadows, dunes.
- A. zwoelferi* (Dosse, 1957) - *Trifolium spp.*, coastal meadows.
- A. umbraticus* (Chant, 1956) - *Malus spp.*
- A. cucumeris* (Oudemans, 1930) - *Betula spp.*, *Sorbus spp.*, *Fragaria spp.*, grasses, litter.
- A. reductus* Wainstein, 1962 - *Quercus spp.*, coastal meadows.
- A. marginatus* (Wainstein, 1961) - *Sorbus spp.*, *Quercus spp.*, coastal meadows.
- A. levis* Wainstein, 1960 - *Juniperus communis*
- A. agrestis* (Karg, 1960) - *Fragaria spp.*, mosses, dunes, washed ashore material.
- A. marinus* (Willmann, 1952) - washed ashore material, dunes.
- A. andersoni* (Chant, 1957) - dunes.
- A. bakeri* (Hughes, 1948) - dunes.
- Phytoseius macropilis* (Banks, 1904) - *Malus spp.*
- P. salicis* Wainstein et Arutunjan, 1970 - *Acer spp.*, various bushes, grasses.
- P. juvenis* Wainstein et Arutunjan, 1970 - *Malus spp.*, *Prunus spp.*

#### Family ANTENNOSEIIDAE Karg, 1965

- Antennoseius (Antennoseius) delicatus* Berlese, 1916 - inland and coastal meadows, dunes, pine forests.
- A. (A.) borussicus* Sellnick, 1945 - nests of wild birds, calcareous inland meadows, coastal meadows.
- A. (A.) bacatosimilis* Karg, 1965 - dry inland meadows, dunes.

#### Family RHODACARIDAE Oudemans, 1902

- Rhodacarus (Rhodacarus) reconditus* Athias-Henriot, 1961 - agroecosystems, mosses, dunes.
- Rh. roseus* Oudemans, 1902 - pine forests.
- Rh. haarlovi* Shcherbak, 1977 - dunes.
- Rh. clavulatus* Athias-Henriot, 1961 - dunes, coastal meadows.
- Rh. mandibularis* Berlese, 1921 - gardens, coastal meadows, dunes.
- Rhodacarellus silesiacus* Wilmann, 1935 - coastal meadows, dunes.
- Minirhodacarellus minimus* (Krag, 1961) - dunes.
- Dendrolaelaps rotundus* Hirschmann, 1960 - pine forests.
- D. trapezoides* Hirschmann, 1960 - washed ashore material.
- D. latior* (Leitner, 1949) - washed ashore material, coastal meadows.
- D. cornutus* (Krämer, 1886) - coastal meadows, dunes.
- D. tenuipilus* Hirschmann, 1960 - coastal meadows, dunes.
- D. nostricornutus* Hirschmann et Wisnewski, 1982 - washed ashore material, dunes.

- D. fallax* (Leitner, 1949) – dunes.  
*D. zwoelferi* Hirschmann, 1960 – pine forests.  
*D. arenarius* Karg, 1971 – dunes, washed ashore material, coastal meadows.  
*D. foveolatus* (Leitner, 1949) – dry inland meadows, coastal meadows, dunes.  
*D. stammeri* Hirschmann, 1960 – coastal meadows.  
*D. septentrionalis* (Sellnick, 1958) – dry inland meadows, dunes.  
*D. strenzkei* Willman, 1957 – gardens.  
*Dendrolaelaspis angulosus* - coastal meadows, dunes.  
*Asca aphidioides* (Linnaeus, 1758) – forests, bogs, coastal meadows.  
*A. bicornis* (Canestrini et Fazago, 1877) – inland and coastal meadows, dunes, bogs, spruce stands, gardens, fields.  
*Halolaelaps incisus* Hyatt, 1956 – washed ashore material, dunes, coastal meadows.  
*H. balticus* Wilmann, 1954 - washed ashore material, dunes, coastal meadows.  
*H. communis* Goetz, in Hirshmann, 1966 - washed ashore material, coastal meadows.  
*H. marinus* (Brady, 1875) - washed ashore material.  
*Gamasellus montanus* (Willmann, 1936) – forests, bogs.  
*Cyrtolaelaps mucronatus* G. et R. Canestrini, 1881 – on small mammals, spruce stands, fields.  
*C. minor* Willmann, 1952 – forests, mosses.  
*Euryparasitus emarginatus* (C. L.Koch, 1839) – forests, bogs, on small mammals.

#### Family MACROCHELIDAE Vitzthum, 1930

- Macrocheles tardus* (C. L. Koch, 1841) – spruce stands, dunes, washed ashore material, dunes, coastal meadows.  
*M. merdarius* (Berlese, 1889) - nests of wild birds, spruce stand, fields.  
*M. decoloratus* (C. L. Koch, 1839) – Muridae spp., *Corylus avellana*.  
*M. submotus* Falconer, 1924 – deciduous and mixed forests.  
*M. carinatus* (C. L. Koch, 1839) – deciduous forests.  
*M. montanus* Willmann, 1951 – forests, beech forest, gardens, washed ashore material, coastal meadows.  
*M. rotundiscutis* Bregetova et Koroleva, 1960 – *Alnus* spp.  
*M. glaber* (Müller, 1860) – forests, inland and coastal meadows, washed ashore material, dunes agroecosystems, dung, Coleoptera spp., on small mammals, nests of wild birds.  
*M. nataliae* Bregetova et Koroleva, 1960 – Silphidae sp.  
*Geholaspis (Cyrtocheles) longispinosus* (Krämer, 1876) – forests, coastal and inland meadows, dung.  
*Geholaspis (Longicheles) mandibularis* (Berlese, 1904) – birch and beech forests, spruce stands, fields, inland meadows.  
*Holostaspella ornata* (Berlese, 1904) – gardens.  
*H. subornata* Bregetova et Koroleva, 1960 – nests of wild birds, dung, *Alnus* spp.

#### Family PACHYLAEALAPTIDAE Vitzthum, 1931

- Pachyseius humeralis* Berlese, 1910 – mixed forests, inland meadows, dung, agroecosystems.

- Pachylaelaps (Pachylaelaps) pectinifer* (G. et R. Canestrini, 1882) – coastal and inland meadows, mixed forests, bogs.
- P. (P.) littoralis* Halbert, 1915 – fields, forests, inland meadows, *Acer spp.*
- P. (Onchodellus) furcifer* Oudemans, 1903 – mixed and deciduous forests, beech forest, inland and coastal meadows, *Acer spp.*
- P. (O.) sculptus* Berlese, 1921 – inland meadows, forests, beech forest.
- P. (O.) regularis* Berlese, 1921 – fields, inland meadows.
- P. (O.) karawaiewi* Berlese, 1921 – inland meadows.
- Pachylaelaps siculus* Berlese, 1892 – inland meadows.
- P. longisetis* Halbert, 1915 – pine forests, inland meadows.
- P. fusciculiger* Berlese, 1921 – gardens, deciduous forests.
- P. imitans* Berlese, 1921 – pine forests.
- P. magnus* Halbert, 1915 – coastal meadows.
- P. dubius* Hirschmann et Krauss, 1965 – mosses.

Family LAELAPTIDAE Berlese, 1892

- Eulaelaps stabularis* (C. L. Koch, 1836) – on small mammals, nests of wild birds, fields.
- Hypoaspis (Geolaelaps) heselhausi* Oudemans, 1912 - on small mammals.
- H. (G.) lubrica* Oudemans et Voigts, 1904 - on small mammals, fields.
- H. (G.) aculeifer* (Canestrini, 1883) – forests, agroecosystems, inland and coastal meadows, washed ashore material, dunes.
- H. (G.) angusticutatus* Willmann, 1951 – birch forests, banks of ditches.
- H. (G.) kargi* Costa, 1968 – inland and coastal meadows, forests, gardens, dunes.
- H. (G.) praesternalis* Willmann, 1949 – coastal and inland meadows, dunes, spruce stands, pine forests, dung, bogs, nests of wild birds.
- H. (Stratiolaelaps) miles* Berlese, 1881 – inland meadows.
- H. (Cosmolaelaps) vacua* (Michael, 1891) – inland and coastal meadows, forests, bogs, banks of ditches, gardens, dunes.
- H. (C.) claviger* (Berlese, 1883) – inland meadows, dunes, mosses.
- H. (Gymnolaelaps) austriacus* (Sellnick, 1935) – forests, inland and coastal meadows, dunes.
- Hypoaspis mixta* Scherbak, 1970 – birch forests.
- H. incertus* Bernhard, 1955 – forests, coastal meadows.
- H. heyi* Karg, 1962, var. *latvicus* – inland meadows, banks of ditches, fields, gardens.
- H. rigensis* Lapina, 1976 – pine forests, bogs, inland meadows, mosses
- H. lusisi* Lapina, 1976 – pine forests, spruce stands, dunes.
- H. similisetae* Karg, 1965 – dunes.
- H. krameri* (G. et R. Canestrini, 1881) – *Oryctes nasicornis*.
- H. sclerotarsa* Costa, 1968 – dunes.
- H. (Euandrolaelaps) karawaiewi* (Berlese, 1903) – pine forests, inland meadows, dunes.
- H. (E.) sardous* (Berlese, 1911) – on small mammals.
- Ololaelaps placentula* (Berlese, 1887) – inland and coastal meadows, forests, bogs.
- O. sellnicki* Bregetova et Koroleva, nom. n., 1964 – inland and coastal meadows, bogs, mixed forests, spruce stands.
- O. veneta* (Berlese, 1903) – bogs, mixed forests, inland and calcareous meadows, nests of wild birds.

*Laelaspis humerata* (Berlese, 1904) - inland meadows, nests of wild birds.

*L. astronomicus* C. L. Koch, 1839 - inland meadows, dunes, nests of wild birds, pine and mixed forests.

*L. markewitschi* Pirianyuk, 1959 – mixed and pine forests, coastal meadows.

*Laelaps agilis* C. L. Koch, 1836 – on small mammals.

*L. pavlovskyi* Zachvatkin, 1948 - on small mammals.

*L. micromydis* Zachvatkin, 1948 - on small mammals.

*L. muris* (Ljung, 1799) - on small mammals, nests of wild birds.

*L. clethrionomydis* Lange, 1955 - on small mammals.

*L. pitymydis* Lange, 1955 – Muridae spp.

*L. hilaris* C. L. Koch, 1836 – on small mammals.

*L. multispinosus* Banks, 1909 – *Arvicola terrestris*

*L. (Hyperlaelaps) amphibius* (Zachvatkin, 1948) - *Arvicola terrestris*, Muridae spp.

*L. (H.) arvalis* (Zachvatkin, 1948) - on small mammals.

*Holotaspis montana* (Berlese, 1904) – spruce stands.

*Alloparasitus oblongus* Halbert, 1915 – forests.

*Haemolaelaps glasgowi* (Ewing, 1925) - on small mammals.

*H. semidesertus* Bregetova, 1952 - *Arvicola terrestris*

*H. casalis* (Berlese, 1887) - nests of wild birds, *Ratus spp.*, *Arvicola terrestris*, fields, mixed forests.

*Myonyssus decumani* Tiraboschi, 1904 - on small mammals.

*M. gigas* Oudemans, 1912 - on small mammals.

*M. rossicus* Bregetova, 1956 - on small mammals.

*M. ingricus* Bregetova, 1956 - on small mammals.

#### Family EVIPHIDAE Berlese, 1913

*Eviphis ostrinus* (C. L. Koch, 1836) – *Mycrotus spp.*, forests, gardens, fields, bogs, coastal meadows, washed ashore material, *Acer spp.*

*Iphidosoma fimetarium* (Müller, 1859) - forests, inland meadows, dung, Carabidae spp.

*I. physogastris* Karg, 1971 – forests, bogs, coastal meadows.

*Alliphis siculus* Oudemans, 1905 – fields, gardens, forests, dung, inland and coastal meadows, washed ashore material, Coleoptera spp.

*Thinoseius spinosus* (Wilmann, 1939) – washed ashore material, dunes, coastal and calcareous meadows, wet mixed forest.

#### Family HAEMOGAMASIDAE Oudemans, 1926

*Haemogamasus pontiger* (Berlese, 1914) – Muridae spp.

*H. nidi* Michael, 1892 - nests of wild birds, on small mammals.

*H. hirsutus* Berlese, 1889 - on small mammals.

*H. hirsutosimilis* Willmann, 1952 - on small mammals.

*H. horridus* Michael, 1892 - on small mammals.

*H. ambulans* (Thorell, 1872) - nests of wild birds, on small mammals.

#### Family HIRSTIONYSSIDAE Evans et Till, 1966

*Hirstionyssus sciurinus* (Hirst, 1921) – Rodentia spp.



- H. talpae* (Zemskaya, 1954) - on small mammals.  
*H. soricis* Turk, 1945 - on small mammals.  
*H. isabellinus* Oudemans, 1913 - on small mammals, fields.  
*H. musculi* (Johnston, 1849) - on small mammals, fields.

Family DERMANYSSIDAE Koleant, 1859

- Dermanyssus gallinae* (Redi, 1674) – nests of wild birds.  
*D. hirundinis* (Hermann, 1804) - nests of wild birds.

Family MACRONYSSIDAE Oudemans, 1936

- Ornithonyssus bacoti* (Hirst, 1913) – on *Mus musculus*

Family SPINTURNUCIDAE Oudemans, 1901

- Spinturnix vespertilionis* Linnaeus, 1758 – on Chiroptera sp.

Family ZERCONIDAE Canestrini, 1891

- Prozercon kochi* Sellnick, 1943 – forests (esp. spruce stand), inland and coastal meadows, bogs, dunes.  
*P. trägardhi* (Halbert, 1923) - nests of wild birds, gardens, spruce stand, coastal meadows, washed ashore material, dunes.  
*P. sellnicki* Halaskova, 1963 – inland and coastal meadows, washed ashore material.  
*P. sarekensis* Willmann, 1939 – forests, bogs, coastal meadows, washed ashore material, dunes.  
*Zercon zelawaiensis* Sellnick, 1944 – forests, inland and coastal meadows, bogs, calcareous bog, dunes.  
*Z. montanus* Willmann, 1953 – spruce stand, pine forests, gardens, dunes, washed ashore material, coastal meadows.  
*Z. spatulatus* C. L. Koch, 1839 – agroecosystems, forests, inland and coastal meadows, dunes, *Acer spp.*  
*Z. jodathae* Sellnick, 1944 – spruce stands.  
*Z. forsslundi* Sellnick, 1958 – forests.  
*Z. carpathicus* Sellnick, 1958 – forests, dunes.  
*Z. fageticola* Halaskova, 1970 – dunes.  
*Z. (Mixozercon) sellnicki* Schweizer, 1948 – coastal and inland meadows.

## Kopsavilkums

Kopš pagājušā gadsimta piecdesmitajiem gadiem Latvijā ir veikta virkne pētījumu par gamazīnu ērcu (Acari, Mesostigmata, Gamasina) faunu. Ievākti un publicēti dati gan par brīvi dzīvojošām, gan parazītiskām sugām, par plēsējiem un fitofāgiem; pētījumi veikti visdažādākajos biotopos, kā arī ir dati par siltumnīcās sastopamajām gamazīnu ērcēm. Pašlaik Latvijas faunā zināmas 247 Gamasina grupas ērcu sugas.

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### Short notes

#### **First record of *Pseudogonalos hahnii* (Spinola, 1840) (Pseudogonaliidae) in Latvia.**

##### **Johan Abenius, Voldemārs Spuņģis**

One female specimen was collected by Z.Spuris in the grassland near town Salaspils, Riga district in July 7, 1981. The species was identified by J.Abenius (Naturvårdsverket Miljöövervakningsenheten, S-106 48, Stockholm, Sweden). This is interesting record as species is extremely rare and known from Europe and parts of Asia including Siberia. *P. hahnii* lays eggs on the exterior of foliage and has been reared from *Diprion similis* (Diprionidae) and ichneumonids parasiting Lepidoptera (Bischoff, 1936; 1938).

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