

CHECKLIST OF THE ERIOPHYOID MITE FAUNA OF MONTENEGRO (ACARI: PROSTIGMATA: ERIOPHYOIDEA)

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Abstract

Accounts are given of the eriophyoid fauna of Montenegro. Based on the literature records, a total of 156 mite species are listed from 130 host species of 42 plant families. The families Phytoptidae, Eriophidae and Diptilomiopidae are represented by 6, 138 and 12 species, respectively. Fifteen new species for science have been described from this area.

KEYWORDS: Acari, Eriophyoidea, Phytoptidae, Eriophyidae, Diptilomiopidae, Montenegro

Introduction

Obligately phytophagous, eriophyoid mites (Acari: Eriophyoidea) are one of the most diverse groups among plant-feeding arthropods. Many of them are of great economic importance because of the abnormalities which they induce on their host plants or the plant viruses that they are able to transmit (OLDFIELD & PROESLER, 1996; WESTPHAL & MANSON, 1996). The superfamily Eriophyoidea contains about 4000 species and the current rate of description of new eriophyoid taxa remains high (AMRINE *et al.*, 2003; DE LILLO & SKORACKA, 2010). In the last decade, a European checklist was published on-line within the Fauna Europaea project (DE LILLO, 2004). Although knowledge about eriophyoid geographical diversity has been restricted largely to the temperate regions of the world and a few tropical and subtropical countries, where more than 90% of known species have been found (DE LILLO & SKORACKA, 2010), local or regional fauna (even in Europe) still remains to be investigated.

The fauna of Eriophyoidea in Montenegro has not yet been studied comprehensively. At the beginning of the 20th Century, only 7 species were known from the territory of Cetinje and Rijeka Crnijičeva (TROTTER, 1903). Twenty-five species were registered from the Gulf of Boka Kotorska (JAAP, 1919/1920), and another 8 species from the localities of Berane, Kolašin, Podgorica and Rožaje (JANEŽIĆ, 1977). PETANOVIĆ (1988) and PETANOVIĆ & DE LILLO (1992) added another 18 species. During the five years of systematic studies of the eriophyoid fauna of Mt. Durmitor, 91 species were registered and 8 new species for science were described (PETANOVIĆ *et al.*, 1996). At the end of the last century from 41 localities and 113 plant species, 117 eriophyoid species within 24 genera were known, among which 9 were new to science (PETANOVIĆ & STANKOVIĆ, 1999).

According to previously published data and recent investigations (Jočić, 2012) today fauna of Eriophyoidea of Montenegro comprise 156 species within 36 genera. Considering the great floristic diversity of this territory and the narrow spectrum of host plants, greater diversity of eriophyoid fauna is to be expected.

Material and Methods

As a source for the preparation of this checklist, the Catalogue of the Eriophyoidea (Acari: Prostigmata) of Serbia and Montenegro (PETANOVIĆ & STANKOVIĆ, 1999, and the references therein) was used, as well as data from other papers published in the meantime.

Additional data are drawn mostly from the eriophyoid collection made from 2003 to 2011 from medicinal plants in natural habitats of northern Montenegro prepared during the first author's preparation of her thesis (Jočić, 2012).

The genus and species names used in AMRINE (1996), AMRINE *et al.* (2003) generic keys, AMRINE & STASNY (1994) catalogue and/or Fauna Europea database were used in this paper. Recently described species or new combinations were used from the original descriptions (VIDOVIĆ & PETANOVIĆ, 2008; JOČIĆ *et al.*, 2011) and from JOČIĆ (2012).

Eriophyoid species, hosts, localities in Montenegro and references are presented within the checklist. A species list is presented according to the actual systematic order of the superfamily. Currently accepted higher taxa and species names followed by the author of the species (in parentheses if the mite was originally described in other genus) and year of publishing are listed. Besides, in Appendix 1 we presented the Index to Host plants of valid eriophyoid species, including the family names of the hosts and the names of eriophyoids recorded on these plants. For validation of host plant scientific names and family names The Plant List database (www.theplantlist.org) was used.

Results and Discussion

Altogether, 156 eriophyoid mites were determined in Montenegro. According to the current classification (AMRINE *et al.*, 2003) they belong to three families and 36 genera.

Eriophyidae is the largest family represented by 31 genera and 138 species. Families Phytoptidae and Diptilomiopidae contain 3 genera and 6 species, and two genera and 12 species, respectively.

The genera *Aceria* (31), *Aculus* (14), *Eriophies* (12), *Phyllocoptes* (12), *Aculops* (10), *Calepitrimerus* (10), *Rhyncaphyoptus* (10) and *Epitrimerus* (8) were found to be most numerous with respect to species.

In total, 130 plants from 42 families were registered as their hosts (Appendix 1) at 306 localities.

List of eriophyoid mite families, subfamilies, genera and species

Superfamily: Eriophyoidea Nalepa, 1898

Family: *Phytoptidae* Murray, 1877

Subfamily: *Nalepellinae* Roivainen, 1953

Genus: *Trisetacus* Keifer, 1952

Trisetacus pini (Nal.), 1887

Host plant (and reference): *Picea abies* (Durmitor; PETANOVIĆ *et al.*, 1996), *Pinus mugo* (Durmitor; PETANOVIĆ *et al.*, 1996), *Pinus sylvestris* (Durmitor; PETANOVIĆ *et al.*, 1996).

Trisetacus juniperinus (Nalepa, 1911), *sensu* Keifer, 1975

Host plant (and reference): *Juniperus communis* (Bijelo Polje; Jočić, 2012).

Subfamily: *Phytoptinae* Murray, 1877

Genus: *Phytoptus* Dujardin, 1851

Phytoptus alchemillae Jočić, Pet. et Vidović, 2011

Host plant (and reference): *Alchemilla hoppeana* (Bjelasica; Jočić *et al.*, 2011).

Phytoptus avellanae Nal., 1889

Host plant (and reference): *Corylus avellana* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phytoptus tetratrichus Nal., 1891

Host plant (and reference): *Tilia cordata* (Durmitor; PETANOVIĆ *et al.*, 1996), *Tilia tomentosa* (Kolašin; JANEŽIĆ, 1977), *Tilia tomentosa* (Berane; JANEŽIĆ, 1977).

Subfamily: *Sierraphytoptinae* Keifer, 1944

Genus: *Sierraphytoptus* Keifer, 1944

Sierraphytoptus ambulans Chetverikov et Sukhareva, 2009

Host plant (and reference): *Fragaria vesca* (Durmitor; PETANOVIĆ *et al.*, 1996).

Family: *Eriophyidae* Nalepa, 1898

Subfamily: *Cecidophyinae* Keifer, 1966

Genus: *Achaetocoptes* Farkas, 1961

Achaetocoptes cerrifoliae (Lab. & Soika, 2002)

Host plant (and reference): *Quercus cerris* (Berane; Jočić, 2012).

Genus: *Cecidophyes* Nalepa, 1887

Cecidophyes galli (Karpelles, 1884)

Host plant (and reference): *Galium aparine* (Kolšín; JANEŽIČ, 1977), *Galium mollugo* (Budva; JANEŽIČ, 1977).

Cecidophyes gymnaspiis (Nal., 1892)

Host plant (and reference): *Acer heldreichii* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer campestre* (Bijelo Polje, Pljevlja; Jočić, 2012).

Cecidophyes lauri Nuzz. & Vov., 1977

Host plant (and reference): *Laurus nobilis* (Kotor; PETANOVIĆ, 1993).

Cecidophyes psilonotus (Nal., 1897)

Host plant (and reference): *Euonymus verrucosus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Colomerus* Newkirk & Keifer, 1975

Colomerus vitis (Pagenstecher, 1857)

Host plant (and reference): *Vitis vinifera* (Ulcinj; PETANOVIĆ, unpublished data), *Vitis vinifera* (Herceg Novi; PETANOVIĆ, 1988).

Genus: *Coptophylla* Keifer, 1944

Coptophylla lamimani (K., 1939)

Host plant (and reference): *Corilus avellana* (Danilovgrad; PETANOVIĆ, 1988).

Genus: *Cosetacus* Keifer, 1966

Cosetacus camelliae (K., 1945)

Host plant (and reference): *Camellia japonica* (Igalj; PETANOVIĆ, unpublished data).

Genus: *Gliptacus* Keifer, 1953

Gliptacus faginea Carmona, 1972

Host plant (and reference): *Quercus cerris* (Berane; Jočić, 2012).

Subfamily: *Eriophyinae* Nalepa, 1898

Genus: *Acalitus* Keifer, 1965

Acalitus brevitarsus (Fockeu, 1890)

Host plant (and reference): *Alnus glutinosa* (Durmitor; PETANOVIĆ *et al.*, 1996), *Alnus incana* (Kolašin; Berane, JANEŽIČ, 1977), *Alnus incana* (Biogradska gora; PETANOVIĆ, unpublished data), *Alnus incana* (Bijelo Polje; Jočić, 2012).

Acalitus stenaspis (Nal., 1891)

Host plant (and reference): *Fagus sylvatica* (Kolašin; JANEŽIČ, 1977).

Genus: *Aceria* Keifer, 1944

Aceria artemisiae (Can., 1891)

Host plant (and reference): *Artemisia eriantha* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria bistrata (Nal., 1919)

Host plant (and reference): *Alnus glutinosa* (Bogičevića; JOČIĆ, 2012).

Aceria centaureae (Nal., 1891)

Host plant (and reference): *Centaurea difusa* (Skadarsko jezero; SCHROEDER, 1985).

Aceria cerrea (Nal., 1898)

Host plant (and reference): *Quercus cerris* (Bijelo Polje; JOČIĆ, 2012).

Aceria destructor (Nal., 1891)

Host plant (and reference): *Sedum ochroleucum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria erinea (Nal., 1891)

Host plant (and reference): *Juglans regia* (Bijelo Polje; JOČIĆ, 2012).

Aceria eupatorii Roiv., 1953

Host plant (and reference): *Eupatorium cannabinum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria ficis (Cotte, 1920)

Host plant (and reference): *Ficus carica* (Kotor; PETANOVIĆ, unpublished data).

Aceria geranii (Can., 1891)

Host plant (and reference): *Geranium sylvaticum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria granati (Can. & Mass.), 1894

Host plant (and reference): *Punica granatum* (Boka Kotorska; PETANOVIĆ, unpublished data).

Aceria ilicis (Can., 1890)

Host plant (and reference): *Quercus ilex* (Budva, Ulcinj; PETANOVIĆ, unpublished data).

Aceria cf. *jappi*

Host plant (and reference): *Arctostaphylos uva-ursi* (Bjelasica; JOČIĆ, 2012).

Aceria kiefferi (Nal., 1891)

Host plant (and reference): *Achillea millefolium* (Lovćen; BOCZEK & PETANOVIĆ, 1993), *Achillea abrotanoides* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria macrochela (Nal., 1891)

Host plant (and reference): *Acer campestre* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer campestre* (Berane; JANEŽIČ, 1977), *Acer heldreichii* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer platanoides* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer platanoides* (Biogradsko jezero; PETANOVIĆ, unpublished data), *Acer pseudoplatanus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria macrorrhyncha (Nal., 1889)

Host plant (and reference): *Acer pseudoplatanus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer obtusatum* (Pivske planine; BAUDYŠ, 1928).

Aceria massalongoi (Can., 1891)

Host plant (and reference): *Vitex agnus-castus* (Budva; PETANOVIĆ, unpublished data), *Vitex agnus-castus* (Miločer; PETANOVIĆ, unpublished data), *Vitex agnus-castus* (Stoliv; PETANOVIĆ, unpublished data), *Vitex agnus-castus* (Boka Kotorska; PETANOVIĆ, unpublished data), *Vitex agnus-castus* (Ostros, Skadarsko jezero, Nišice, Bar; PETANOVIĆ, 1998).

Aceria monspessulani (Cecconi, 1902)

Host plant (and reference): *Acer monspessulanum* (Kolašin; JANEŽIČ, 1977).

Aceria nervisequa (Can., 1891)

Host plant (and reference): *Fagus moesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996), *Fagus moesiaca* (Biogradska gora; PETANOVIĆ, unpublished data), *Fagus sylvatica* (Volonjačka jezera; BAUDYŠ, 1928), *Fagus sylvatica* (Kolašin; JANEŽIČ, 1977).

Aceria oleae (Nal., 1900)

Host plant (and reference): *Olea europea* (Bar; VIDOVIĆ & PETANOVIĆ, 2008).

Aceria peucedani (Can., 1892)

Host plant (and reference): *Sesili rigidum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria pseudoplatanea (Nal., 1922)

Host plant (and reference): *Acer heldreichii* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer platanoides* (Durmitor; PETANOVIĆ *et al.*, 1996), *Acer platanoides* (Biogradska gora; PETANOVIĆ, unpublished data), *Acer pseudoplatanus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria rosalia (Nal., 1891)

Host plant (and reference): *Helianthemum nummularium* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria salviae (Nal., 1891)

Host plant (and reference): *Salvia verticiliata* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria scheldoni (Ewing, 1937)

Host plant (and reference): *Citrus* sp. (Budva, Krtoli, Lastva, Đenović, Petrovac na moru, Bar, Tivat, Baošić, Herceg Novi, Igal; MIJUŠKOVIĆ & TOMAŠEVIĆ, 1975).

Aceria solida (Nal., 1892)

Host plant (and reference): *Stachys alpina* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria squalida (Nal., 1892)

Host plant (and reference): *Scabiosa silenifolia* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria tenella (Nal., 1892)

Host plant (and reference): *Caprinus orientalis* (Petrovac na moru; PETANOVIĆ, unpublished data).

Aceria tenuis (Nal., 1891)

Host plant (and reference): *Bromus madritensis* (Herceg Novi; BAUDYŠ, 1913).

Aceria thomasi (Nal., 1889)

Host plant (and reference): *Thymus* sp. (Bogičevica; JOČIĆ, 2012).

Aceria tristriata (Nal., 1890)

Host plant (and reference): *Juglans regia* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aceria tussilagifoliae B., 1964

Host plant (and reference): *Tussilago farfara* (Lovćen; BOCZEK & PETANOVIĆ, 1996), *Tussilago farfara* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Eriophyes* von Siebold, 1851

Eriophyes buxi (Can., 1891)

Host plant (and reference): *Buxus sempervirens* (Danilovgrad; PETANOVIĆ, unpublished data).

Eriophyes dryadis Roiv., 1951

Host plant (and reference): *Dryas octopetala* (Durmitor; PETANOVIĆ *et al.*, 1996).

Eriophyes durmitorensis Pet. & B., 1990

Host plant (and reference): *Fagus moesiaca* (Durmitor; PETANOVIĆ & BOCZEK, 1990), *Fagus moesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996).

Eriophyes emarginate K., 1939

Host plant (and reference): *Prunus domestica* (Cetinje; PETANOVIĆ I DOBRIVOJEVIĆ, 1987).

Eriophyes exilis (Nal., 1892)

Host plant (and reference): *Tilia platyphyllos* (Durmitor; PETANOVIĆ *et al.*, 1996).

Eriophyes inangulis (Nal., 1919)

Host plant (and reference): *Alnus glutinosa* (Kolašin; JANEŽIČ, 1977).

Eriophyes laevis (Nal., 1889)

Host plant (and reference): *Alnus glutinosa* (Durmitor; PETANOVIĆ *et al.*, 1996), *Alnus glutinosa* (Kolašin, Berane; JANEŽIČ, 1977), *Alnus incana* (Durmitor; PETANOVIĆ *et al.*, 1996), *Alnus incana* (Berane; JANEŽIČ, 1977), *Alnus incana* (Biogradska gora; PETANOVIĆ, unpublished data), *Alnus incana* (Bogičevića; JOČIĆ, 2012).

Eriophyes leionotus (Nal., 1891)

Host plant (and reference): *Betula pendula* (Durmitor; PETANOVIĆ *et al.*, 1996).

Eriophyes pyri (Pgst., 1857)

Host plant (and reference): *Cotoneaster tomentosus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Cydonia oblonga* (Cetinje; PETANOVIĆ, 1988), *Mespilus germanica* (Cetinje; PETANOVIĆ, 1988), *Pyrus comunis* (Durmitor; PETANOVIĆ *et al.*, 1996), *Pyrus domestica* (Cetinje; PETANOVIĆ, 1988), *Pyrus domestica* (Durmitor; PETANOVIĆ *et al.*, 1996), *Pyrus domestica* (Bijelo Polje; TOMAŠEVIĆ, 1962), *Pyrus piraster* (Bijelo Polje; JOČIĆ, 2012), *Sorbus aria* (Durmitor; PETANOVIĆ *et al.*, 1996), *Sorbus aucuparia* (Durmitor; PETANOVIĆ *et al.*, 1996), *Sorbus torminalis* (Bijelo Polje; JOČIĆ, 2012).

Eriophyes septemlineatus Pet., 1991

Host plant (and reference): *Euphorbia dendroides* (Budva; PETANOVIĆ, 1991), *Euphorbia dendroides* (Budva; PETANOVIĆ, unpublished data).

Eriophyes similis (Nal., 1890)

Host plant (and reference): *Prunus domestica* (Bijelo Polje; GRUJIČIĆ & TOMAŠEVIĆ, 1956), *Prunus spinosa* (Durmitor; PETANOVIĆ *et al.*, 1996), *Prunus* sp. (Plav; JOČIĆ, 2012).

Eriophyes tiliae (Pagenstech., 1857)

Host plant (and reference): *Tilia* sp. (Cetinje; TROTTER, 1903), *Tilia* sp. (Ostrog; PETANOVIĆ, unpublished data), *Tilia tomentosa* (Podgorica, Kolašin; JANEŽIČ, 1977), *Tilia tomentosa* (Durmitor; PETANOVIĆ *et al.*, 1996).

Subfamily: *Phyllocoptinae* Nalepa, 1892

Genus: *Acaphylla* Keifer, 1943

Acaphylla acromia (Nal., 1891)

Host plant (and reference): *Betula pandula* (Bijelo Polje; JOČIĆ, 2012).

Genus: *Acaricalus* Keifer, 1940

Acaricalus cristatus (Nal., 1897)

Host plant (and reference): *Quercus cerris* (Berane; JOČIĆ, 2012).

Acaricalus trinotus (Nal., 1892)

Host plant (and reference): *Alnus incana* (Jelovica; JOČIĆ, 2012).

Genus: *Aculodes* Keifer, 1966

Aculodes mckenziei Keifer, 1944

Host plant (and reference): *Mentha longifolia* (Bijelo Polje; JOČIĆ, 2012)

Genus: *Aculops* Keifer, 1966

Aculops acericolus (Nal., 1894)

Host plant (and reference): *Acer heldreichii* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculops arianus (Nal., 1893)

Host plant (and reference): *Cotoneaster integerrimus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculops clinopodii (Liro, 1941)

Host plant (and reference): *Origanum vulgare* (Durmitor; PETANOVIĆ *et al.*, 1996), *Prunella vulgaris* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculops euphorbiae Pet., 1991

Host plant (and reference): *Euphorbia spinosa* (Budva, Radovići, Orijen, Boka Kotorska, Platije; PETANOVIĆ & DE LILLO, 1992), *Euphorbia spinosa* (Tivat; PETANOVIĆ, unpublished data).

Aculops eximius (Liro, 1941)

Host plant (and reference): *Trifolium ochroleucon* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculops glabriflorae Pet. & de Lilo, 1992

Host plant (and reference): *Euphorbia amygdaloides* (Durmitor; PETANOVIĆ *et al.*, 1996), *Euphorbia capitulata* (Durmitor; PETANOVIĆ *et al.*, 1996), *Euphorbia capitulata* (Orijen; PETANOVIĆ, unpublished data).

Aculops manzanitae (Keifer, 1940)

Host plant (and reference): *Arctostaphylos uva-ursi* (Bogićevica; JOČIĆ, 2012) .

Aculops montenegrinus Pet. & de Lillo, 1992

Host plant (and reference): *Euphorbia myrsinites* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculops niloticus Abou-Awad, 1980

Host plant (and reference): *Mentha spicata* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculops pelekassi (K., 1959)

Host plant (and reference): *Citrus* sp. (Buljarice, Budva, Kotor, Kumbor, Lastva, Prčanj, Risan, Đenović, Petrovac na moru, Kostajnica, Bar, Tivat, Kamenari, Stoliv, Baošić, Herceg Novi, Bijela; KOSIĆ, 1964), *Citrus*

sp. (Buljarice, Budva, Kotor, Kumbor, Lastva, Prčanj, Risan, Đenović, Petrovac na moru, Kostajnica, Bar, Tivat, Kamenari, Stoliv, Baošić, Herceg Novi, Bijela; MIJUŠKOVIĆ & TOMAŠEVIĆ, 1975).

Genus: *Aculus* Keifer, 1959

Aculus aucupariae (Liro, 1943)

Host plant (and reference): *Sorbus aucuparia* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus blagayanae Jočić, Pet. et Vidović, 2011

Host plant (and reference): *Daphne blagayana* (Bijelo Polje; JOČIĆ *et al.*, 2011).

Aculus brevisetus (Carmona, 1972)

Host plant (and reference): *Fagus moesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996), *Fagus sylvatica* (Bijelo Polje; JOČIĆ, 2012).

Aculus comatus (Nal., 1892)

Host plant (and reference): *Carpinus betulus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Corylus avellana* (Durmitor; PETANOVIĆ *et al.*, 1996), *Corylus colurna* (Bijelo Polje, Berane; JOČIĆ, 2012), *Ostrya carpinifolia* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus epiphyllus (Nal., 1892)

Host plant (and reference): *Fraxinus excelsior* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus fockeui (Nalepa et Trouessart, 1891)

Host plant (and reference): *Prunus* sp. (Danilovgrad; PETANOVIĆ, 1988), *Prunus spinosa* (Bijelo Polje; JOČIĆ, 2012), *Prunus domestica* (Berane; JOČIĆ, 2012).

Aculus helianthemi Roiv., 1950

Host plant (and reference): *Helianthemum canum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus hyperici Liro, 1943

Host plant (and reference): *Hypericum maculatum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus kernerii (Nal., 1894)

Host plant (and reference): *Gentiana asclepiadea* (Bijelo Polje; JOČIĆ, 2012).

Aculus massei (Nal., 1925)

Host plant (and reference): *Ribes petaraeum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus pimpinellae (Liro, 1941)

Host plant (and reference): *Pimpinella tragium* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus stachysi Pet. & B., 1991

Host plant (and reference): *Stachys alopecurus* (Durmitor; PETANOVIĆ & BOCZEK, 1991).

Aculus truncatus (Nal., 1892)

Host plant (and reference): *Salix purpurea* (Durmitor; PETANOVIĆ *et al.*, 1996).

Aculus uncutus (B., 1964)

Host plant (and reference): *Populus tremula* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Anthocoptes* Nalepa, 1892

Anthocoptes eupatorii Roiv., 1951

Host plant (and reference): *Eupatorium cannabinum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Anthocoptes octocinctus Nal., 1894

Host plant (and reference): *Teucrium chamaedrys* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Boczekiana* Petanović, 2000

Boczekiana celtidis Petanović, 2001

Host plant (and reference): *Celtis australis* (Grbalj; PETANOVIĆ, 2001).

Genus: *Calepitrimerus* Keifer, 1938

Calepitrimerus achilleae Roivainen, 1950

Host plant (and reference): *Achillea millefolium* (Bjelasica; JOČIĆ, 2012).

Calepitrimerus alchemillae (Liro, 1940)

Host plant (and reference): *Alchemilla xanthochlora* (Durmitor; PETANOVIĆ *et al.*, 1996).

Calepitrimerus armatus (Canestrini, 1890)

Host plant (and reference): *Crataegus monogyna* (Bijelo Polje; JOČIĆ, 2012).

Calepitrimerus chamaemori (Liro, 1941)

Host plant (and reference): *Rubus idaeus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Calepitrimerus fagi Roiv., 1949

Host plant (and reference): *Fagus moesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996), *Fagus sylvatica* (Bijelo Polje; JOČIĆ, 2012).

Calepitrimerus fagisilvaticus K., 1965

Host plant (and reference): *Fagus moesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996).

Calepitrimerus orjensis Pet., 1995

Host plant (and reference): *Daphne alpina* (Orijen; PETANOVIĆ *et al.*, 1995).

Calepitrimerus periclymeni Roiv., 1949

Host plant (and reference): *Lonicera alpigena* (Durmitor; PETANOVIĆ *et al.*, 1996).

Calepitrimerus rhamni Pet. & B., 1990

Host plant (and reference): *Frangula alnus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Rhamnus alpinus* L. ssp. *falax* (Durmitor; PETANOVIĆ & BOCZEK, 1990).

Calepitrimerus vitis (Nal., 1905)

Host plant (and reference): *Vitis vinifera* (Petrovac na moru; GRUJIČIĆ & TOMAŠEVIĆ, 1956).

Genus: *Callynthrotus* Nalepa, 1898

Callynthrotus schlechtendali Nal., 1894

Host plant (and reference): *Rosa canina* (Berane; JOČIĆ, 2012).

Genus: *Ditrimacus* Keifer, 1960

Ditrimacus athiasella Keifer, 1960

Host plant (and reference): *Olea europea* (Bar; PETANOVIĆ, unpublished data).

Genus: *Epitrimerus* Nalepa, 1898

Epitrimerus campanularius Liro, 1943

Host plant (and reference): *Edrianthus montenegrinus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Epitrimerus cotini Farkas, 1960

Host plant (and reference): *Cotinus coggygria* (Durmitor; PETANOVIĆ *et al.*, 1996).

Epitrimerus cupressi (K., 1939)

Host plant (and reference): *Cupressus sempervirens* (Ulcinj; PETANOVIĆ, 1993), *Cupressus sempervirens* (Tivat; PETANOVIĆ, unpublished data).

Epitrimerus geranii (Liro, 1941)

Host plant (and reference): *Geranium caeruleatum* (Durmitor; PETANOVIĆ *et al.*, 1996), *Geranium robertianum* (Durmitor; PETANOVIĆ *et al.*, 1996), *Geranium sanguineum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Epitrimerus heterogaster (Nal., 1891)

Host plant (and reference): *Clematis vitalba* (Durmitor; PETANOVIĆ *et al.*, 1996).

Epitrimerus jaceae Liro, 1943

Host plant (and reference): *Origanum vulgare* (Durmitor; PETANOVIĆ *et al.*, 1996), *Stachys alopecurus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Epitrimerus pyri (Nal., 1894)

Host plant (and reference): *Pyrus comunis* (Durmitor; PETANOVIĆ *et al.*, 1996), *Pyrus domestica* (Danilovgrad; PETANOVIĆ, unpublished data).

Epitrimerus trilobus (Nal., 1891)

Host plant (and reference): *Sambucus ebulus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Sambucus racemosa* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Leipothrix* Keifer, 1966

Leipothrix liroi (Roiv., 1947) *n. comb.*

Host plant (and reference): *Primula* sp. (Bogićevica; JOČIĆ, 2012).

Leipothrix mentae Jočić, Pet. et Vidović, 2011

Host plant (and reference): *Mentha piperita* (Bijelo Polje; JOČIĆ *et al.*, 1996).

Leipothrix taraxaci Liro, 1943

Host plant (and reference): *Taraxacum officinale* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Mesalox* Keifer, 1962

Mesalox daphnei Pet. & B., 1991

Host plant (and reference): *Daphne mesereum* (Durmitor; PETANOVIĆ & BOCZEK, 1991).

Genus: *Neotegonotus* Newkirk & Keifer, 1971

Neotegonotus fastigatus (Nal., 1892)

Host plant (and reference): *Acer campestre* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Oxycenus* Keifer, 1961

Oxycenus maxwelli (K., 1939)

Host plant (and reference): *Olea europea* (Bar; PETANOVIĆ, unpublished data).

Genus: *Phyllocoptes* Nalepa, 1889

Phyllocoptes compressus Nal., 1892

Host plant (and reference): *Caprinus betulus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes goniothorax (Nal., 1889)

Host plant (and reference): *Crategus monogyna* (Cetinje; TROTTER, 1903), *Crategus monogyna* (Durmitor; PETANOVIĆ *et al.*, 1996), *Crategus monogyna* (Kolašin, Berane; JANEŽIČ, 1977), *Crategus monogyna* (Pljevlja; JOČIĆ, 2012).

Phyllocoptes gracilis (Nal., 1890)

Host plant (and reference): *Rubus fruticosus* (Bogičevica, Bijelo Polje; JOČIĆ, 2012), *Rubus hirsutus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Rubus idaeus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Rubus idaeus* (Bijelo Polje; JOČIĆ, 2012).

Phyllocoptes lakusici Pet., 1993

Host plant (and reference): *Dryas octopetala* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes loniceræ Pet. & B., 1991

Host plant (and reference): *Lonicera caprifolium* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes malinus (Nal., 1892)

Host plant (and reference): *Malus sylvestris* (Bijelo Polje; JOČIĆ, 2012).

Phyllocoptes mihajlovici Pet. & B., 1992

Host plant (and reference): *Spirea media* (Durmitor; PETANOVIĆ & BOCZEK, 1992).

Phyllocoptes obtusus Nal., 1891

Host plant (and reference): *Salvia verticillata* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes populi Nal., 1894

Host plant (and reference): *Populus tremula* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes sorbeus (Nal., 1892)

Host plant (and reference): *Sorbus aucuparia* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes vaccini (Floeg. & Goss, 1933)

Host plant (and reference): *Vaccinium myrtillus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Phyllocoptes xylostei (Can., 1891)

Host plant (and reference): *Lonicera alpigena* (Durmitor; PETANOVIĆ *et al.*, 1996), *Lonicera xylosteum* (Durmitor; PETANOVIĆ *et al.*, 1996).

Genus: *Phyllocoptruta* Keifer, 1938

Phyllocoptruta coryli (Liro, 1931)

Host plant (and reference): *Corylus avellana* (Osečenica-Vilusi; PETANOVIĆ, 1988).

Genus: *Platiphytoptus* Keifer, 1939

Platiphytoptus jiniperi Malandraki, Pet. & Emm., 2004

Host plant (and reference): *Juniperus communis* (Rožaje; JOČIĆ, 2012).

Genus: *Reckella* Bagdasarian, 1975

Reckella celtis Bag., 1975

Host plant (and reference): *Celtis australis* (Kotor; PETANOVIĆ *et al.*, 1997).

Genus: *Shevtchenkella* Bagdasarian, 1978

Shevtchenkella anchusae Pet., B. & Shi, 2002

Host plant (and reference): *Anchusa officinalis* (Nikšić; PETANOVIĆ *et al.*, 2002).

Shevtchenkella barensis Vidović et Petanović, 2008

Host plant (and reference): *Olea europea* (Bar; VIDOVIĆ & PETANOVIĆ, 2008).

Shevtchenkella ligustri (Farkas, 1963)

Host plant (and reference): *Ligustrum vulgare* (Rožaje; JOČIĆ, 2012).

Shevtchenkella obtusa (Roiv., 1947)

Host plant (and reference): *Acer pseudoplatanus* (Stol; PETANOVIĆ, 1993).

Genus: *Tegonotus* Nalepa, 1890

Tegonotus acutilobus (Nal., 1896)

Host plant (and reference): *Cornus mas* (Durmitor; PETANOVIĆ *et al.*, 1996), *Cornus mas* (Berane; JOČIĆ, 2012), *Cornus sanguinea* (Bijelo Polje; JOČIĆ, 2012).

Tegonotus bulgaricus (Natcheff, 1966)

Host plant (and reference): *Cornus mas* (Durmitor; PETANOVIĆ *et al.*, 1996).

Tegonotus collaris Nal., 1894

Host plant (and reference): *Fraxinus excelsior* (Durmitor; PETANOVIĆ *et al.*, 1996), *Fraxinus ornus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Tegonotus depressus (Nal., 1894)

Host plant (and reference): *Caprinus betulus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Caprinus betulus* (Bijelo Polje, Berane; JOČIĆ, 2012), *Corylus avellana* (Durmitor; PETANOVIĆ *et al.*, 1996), *Corylus colurna* (Bijelo Polje; JOČIĆ, 2012), *Ostrya caprinifolia* (Durmitor; PETANOVIĆ *et al.*, 1996).

Tegonotus heptacanthus (Nal., 1889)

Host plant (and reference): *Alnus glutinosa* (Pljevlja; JOČIĆ, 2012).

Tegonotus platynaspis (Nal., 1920)

Host plant (and reference): *Alnus glutinosa* (Bogičevića; JOČIĆ, 2012).

Tegonotus trouessarti Nal., 1892

Host plant (and reference): *Alnus glutinosa* (Durmitor; PETANOVIĆ *et al.*, 1996), *Alnus glutinosa* (Pljevlja; JOČIĆ, 2012).

Genus: *Tetra* Keifer, 1944

Tetra durmitoriensis Pet. & B., 1992

Host plant (and reference): *Arctostaphylos alpinus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Arctostaphylos uva-ursi* (Durmitor; PETANOVIĆ *et al.*, 1996).

Family: *Diptilomiopidae* Keifer, 1944

Subfamily: *Diptilomiopinae* Keifer, 1944

Genus: *Diptacus* Keifer, 1944

Diptacus dipterochelus (Nal., 1920)

Host plant (and reference): *Alnus incana* (Andrijević; Jočić, 2012).

Diptacus giganthorhynchus (Nal., 1892)

Host plant (and reference): *Cydonia oblonga* (Danilovgrad; PETANOVIĆ, 1988), *Malus sylvestris* (Durmitor; PETANOVIĆ *et al.*, 1996), *Malus sylvestris* (Bijelo Polje; Jočić, 2012), *Prunus avium* (Danilovgrad; PETANOVIĆ, 1988), *Prunus avium* (Bijelo Polje; Jočić, 2012), *Prunus cerasus* (Danilovgrad; PETANOVIĆ, 1988), *Prunus domestica* (Danilovgrad; PETANOVIĆ, 1988).

Subfamily: *Rhyncaphyoptinae* Roivainen, 1953

Genus: *Rhyncaphyoptus* Keifer, 1939

Rhyncaphyoptus capreae Keifer, 1942

Host plant (and reference): *Salix caprea* (Durmitor; PETANOVIĆ *et al.*, 1996), *Salix silesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996).

Rhyncaphyoptus cerrifoliae Farkas, 1963

Host plant (and reference): *Quercus cerris* (Durmitor; PETANOVIĆ *et al.*, 1996).

Rhyncaphyoptus fagacis B., 1964

Host plant (and reference): *Fagus moesiaca* (Durmitor; PETANOVIĆ *et al.*, 1996).

Rhyncaphyoptus ficifoliae K., 1940

Host plant (and reference): *Ficus carica* (Ostrog; PETANOVIĆ, unpublished data).

Rhyncaphyoptus lanuginosae (Farkas, 1963)

Host plant (and reference): *Quercus cerris* (Berane; Jočić, 2012).

Rhyncaphyoptus longisetosus (Farkas, 1963)

Host plant (and reference): *Quercus cerris* (Bijelo Polje; Jočić, 2012).

Rhyncaphyoptus massalongioanus (Nal., 1893)

Host plant (and reference): *Quercus cerris* (Bijelo Polje; Jočić, 2012).

Rhyncaphyoptus pauciannulatus Liro, 1943

Host plant (and reference): *Cotoneaster integerrimus* (Durmitor; PETANOVIĆ *et al.*, 1996), *Cotoneaster tomentosus* (Durmitor; PETANOVIĆ *et al.*, 1996).

Rhyncaphyoptus salicisglaucae Roiv., 1950

Host plant (and reference): *Salix caprea* (Durmitor; PETANOVIĆ *et al.*, 1996).

Rhyncaphyoptus sorbi Liro, 1943

Host plant (and reference): *Sorbus aucuparia* (Durmitor; PETANOVIĆ *et al.*, 1996).

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СПИСАК ВРСТА ФАУНЕ ЕРИОФИДА ЦРНЕ ГОРЕ (ACARI: PROSTIGMATA: ERIOPHYOIDEA)

ИВОНА ЈОЧИЋ и РАДМИЛА ПЕТАНОВИЋ

Извод

Ериофидне гриње (Acari: Eriophyoidea) спадају међу најзначајније и најмногбројније фитофагне гриње које оштећују гајене и биљке из спонтане флоре. У свету је до сада описано око 4000 врста од чега највише у умереном појасу а најмање у тропима. Повећано интересовање за ову скупину гриња резултира чињеницом да се сваке године открије по неколико нових родова и више стотина врста. Према последњој класификацији врсте натфамилије Eriophyoidea сврстане су у три фамилије: Phytoptidae, Eriophyidae i Diptilomiopidae.

Фауна Eriophyoidea Црне Горе данас броји 156 врста у оквиру 36 родова. Из фамилије Phytoptidae је 6 врста. Фамилија Eriophyidae броји укупно 138 врста, док је у фамилији Diptilomiopidae забиљежено 12 врста. Са простора Црне Горе описано је до сада 15 нових врста за науку из родова: *Aculops* Keifer, 1966, *Aculus* Keifer 1959, *Calepitrimerus* Keifer, 1938, *Eriophyes* von Siebold, 1851, *Leipothrix* Keifer, 1966, *Mesalox* Keifer, 1962, *Phyllocoptes* Nalepa, 1889, *Phytoptus* Dujardin, 1851, *Shevtchenkella* Bagdasarian, 1978 i *Tetra* Keifer, 1944.

Генерално посматрајући на просторима Црне Горе најбројнији су врстама родови: *Aceria*, *Aculus*, *Eriophyes*, *Phyllocoptes*, *Aculops* i *Calepitrimerus*. У досадашњим истраживањима ериофиде су регистроване на 130 биљака домаћина из 42 фамилије.

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Appendix 1

Index to Host Plants and Eriophyoid Mites Recorded on Them

Host plant: *Acer campestre* L. (Aceraceae)

Eriophyoid species: *Aceria macrochela*, *Cecidophyes gymnaspis*, *Neotegonotus fastigatus*

Host plant: *Acer heldreichii* Orph. Ex Boiss. (Aceraceae)

Eriophyoid species: *Aceria macrochela*, *Aceria pseudoplatanea*, *Aculops acericolus*, *Cecidophyes gymnaspis*

Host plant: *Acer platanoides* L. (Aceraceae)

Eriophyoid species: *Aceria macrochela*, *Aceria pseudoplatanea*

Host plant: *Acer pseudoplatanus* L. (Aceraceae)

Eriophyoid species: *Aceria macrochela*, *Aceria macrorrhyncha*, *Aceria pseudoplatanea*, *Shevtchenkella obtuse*

Host plant: *Acer opalus* subsp. *obtusatum* (Waldst. & Kit ex Willd.) Gams (Aceraceae)

Eriophyoid species: *Aceria macrorrhyncha*

Host plant: *Acer monspessulanum* L.

Eriophyoid species: *Aceria monspessulani*

Host plant: *Achillea abrotanoides* (Vis.) Vis. (Compositae)

Eriophyoid species: *Aceria keiferi*

Host plant: *Achillea millefolium* L. (Compositae)

Eriophyoid species: *Aceria keiferi*, *Calepitrimerus achilleae*

Host plant: *Alchemilla hoppeana* (Rchb.) D. Torre. *aggr.* (Rosaceae)

Eriophyoid species: *Phytoptus alchemillae*

Host plant: *Alchemilla vulgaris* L. (Rosaceae)

Eriophyoid species: *Calepitrimerus alchemillae*

Host plant: *Alnus glutinosa* (L.) Geartner (Betulaceae)

Eriophyoid species: *Acalitus brevitarisus*, *Aceria bistrata*, *Eriophyes inangulis*, *Eriophyes laevis*, *Tegonotus heptacanthus*, *Tegonotus platynaspis*, *Tegonotus trouessarti*

Host plant: *Alnus incana* (L.) Moench (Betulaceae)

Eriophyoid species: *Acalitus brevitarisus*, *Acaricalus trinotus*, *Diptacus dipterochelus*, *Eriophyes laevis*

Host plant: *Anchusa officinalis* L. (Boraginaceae)

Eriophyoid species: *Shevtchenkella anchusae*

Host plant: *Arctostaphylos alpina* (L.) Sprengel (Ericaceae)
Eriophyoid species: *Tetra durmitoriensis*

Host plant: *Arctostaphylos uva-ursi* (L.) Spreng. (Ericaceae)
Eriophyoid species: *Aceria* cf. *jappi*, *Aculops manzanitae*, *Tetra dumitoriensis*

Host plant: *Artemisia umbelliformis* subsp. *eriantha* (Ten.) Valles-Xirau & Oliva Branas (Compositae)
Eriophyoid species: *Aceria artemisiae*

Host plant: *Betula pendula* Roth (Betulaceae)
Eriophyoid species: *Acaphylla acromia*, *Eriophyes lionotus*

Host plant: *Bromus madritensis* L. (Poaceae)
Eriophyoid species: *Aceria tenuis*

Host plant: *Camellia japonica* L. (Theaceae)
Eriophyoid species: *Cosetacus camelliae*

Host plant: *Caprinus betulus* (L.) (Betulaceae)
Eriophyoid species: *Aculus comatus*, *Phyllocoptes compressus*, *Tegonotus depressus*

Host plant: *Caprinus orientalis* Mill. (Betulaceae)
Eriophyoid species: *Aceria tenella*

Host plant: *Celtis australis* L. (Cannabaceae)
Eriophyoid species: *Boczekiana celtidis*, *Reckella celtis*

Host plant: *Centaurea diffusa* Lam. (Compositae)
Eriophyoid species: *Aceria centaureae*

Host plant: *Citrus* sp. (Rutaceae)
Eriophyoid species: *Aceria scheldoni*, *Aculops pelekassi*

Host plant: *Clematis vitalba* L. (Ranunculaceae)
Eriophyoid species: *Epitrimerus heterogaster*

Host plant: *Corylus avellana* L. (Betulaceae)
Eriophyoid species: *Aculus comatus*, *Coptophylla lamimani*, *Phyllocoptes coryli*, *Phytoptus avellanae*, *Tegonotus depressus*

Host plant: *Corylus colurna* L. (Betulaceae)
Eriophyoid species: *Aculus comatus*, *Tegonotus depressus*

Host plant: *Cornus mas* L. (Cornaceae)
Eriophyoid species: *Tegonotus acutilobus*, *Tegonotus bulgaricus*

Host plant: *Cornus sanguinea* L. (Cornaceae)
Eriophyoid species: *Tegonotus acutilobus*

Host plant: *Cotinus coggygria* Scop. (Anacardiaceae)

Eriophyoid species: *Epitrimerus cotini*

Host plant: *Cotoneaster integerrimus* Medik. (Rosaceae)

Eriophyoid species: *Aculops arianus*, *Rhyncaphytoptus pauciannulatus*

Host plant: *Cotoneaster tomentosa* Lindley (Rosaceae)

Eriophyoid species: *Eriophyes pyri*, *Rhyncaphytoptus pauciannulatus*

Host plant: *Crataegus monogyna* Jacq. (Rosaceae)

Eriophyoid species: *Calepitrimerus armatus*, *Phyllocoptes goniothorax*

Host plant: *Cupressus sempervirens* L. (Cupressaceae)

Eriophyoid species: *Epitrimerus cupressi*

Host plant: *Cydonia oblonga* Mill. (Rosaceae)

Eriophyoid species: *Diptacus giganthorrhynchus*, *Eriophyes pyri*

Host plant: *Daphne alpina* L. (Thymelaeaceae)

Eriophyoid species: *Calepitrimerus orjensis*

Host plant: *Daphne blagayana* Freyer (Thymelaeaceae)

Eriophyoid species: *Aculus blagayanae*

Host plant: *Daphne mezereum* L. (Thymelaeaceae)

Eriophyoid species: *Mesalox daphnei*

Host plant: *Dryas octopetala* L. (Rosaceae)

Eriophyoid species: *Eriophyes dryadis*, *Phyllocoptes lakusici*

Host plant: *Edrianthus montenegrinus* Horak (Campanulaceae)

Eriophyoid species: *Epitrimerus campanularius*

Host plant: *Euonymus verrucosus* Scop. (Celastraceae)

Eriophyoid species: *Cecidophyes psilonotus*

Host plant: *Eupatorium cannabinum* L. (Compositae)

Eriophyoid species: *Aceria eupatorii*, *Anthocoptes eupatorii*

Host plant: *Euphorbia amygdaloides* L. (Euphorbiaceae)

Eriophyoid species: *Aculops glabriflorae*

Host plant: *Euphorbia capitulata* Rchb. (Euphorbiaceae)

Eriophyoid species: *Aculops glabriflorae*

Host plant: *Euphorbia dendroides* L. (Euphorbiaceae)

Eriophyoid species: *Eriophyes septemlineatus*

Host plant: *Euphorbia myrsinites* L. (Euphorbiaceae)

Eriophyoid species: *Aculops montenegrinus*

Host plant: *Euphorbia spinosa* L. (Euphorbiaceae)

Eriophyoid species: *Aculops euphorbiae*

Host plant: *Fagus x taurica* Popl. (Fagaceae)

Eriophyoid species: *Aceria nervisequa*, *Aculus brevisetus*, *Calepitrimerus fagi*, *Calepitrimerus fagisilvaticus*, *Eriophyes durmitoriensis*, *Rhyncaphytoptus fagacis*

Host plant: *Fagus sylvatica* L. (Fagaceae)

Eriophyoid species: *Acalitus stenaspis*, *Aceria nervisequa*, *Aculus brevisetus*, *Calepitrimerus fagi*

Host plant: *Ficus carica* L. (Moraceae)

Eriophyoid species: *Aceria fici*, *Rhyncaphytoptus ficifoliae*

Host plant: *Fragaria vesca* L. (Rosaceae)

Eriophyoid species: *Sierraphytoptus ambulans*

Host plant: *Frangula dodonei* Ard. (Rhamnaceae)

Eriophyoid species: *Calepitrimerus rhamni*

Host plant: *Fraxinus excelsior* L. (Oleaceae)

Eriophyoid species: *Aculus epiphyllus*, *Tegonotus collaris*

Host plant: *Fraxinus ornus* L. (Oleaceae)

Eriophyoid species: *Tegonotus collaris*

Host plant: *Galium aparine* L. (Rubiaceae)

Eriophyoid species: *Cecidophyes galli*

Host plant: *Galium mollugo* L. (Rubiaceae)

Eriophyoid species: *Cecidophyes galli*

Host plant: *Gentiana asclepiadea* L. (Gentianaceae)

Eriophyoid species: *Aculus cerneri*

Host plant: *Geranium caeruleatum* Schur (Geraniaceae)

Eriophyoid species: *Epitrimerus geranii*

Host plant: *Geranium robertianum* L. (Geraniaceae)

Eriophyoid species: *Epitrimerus geranii*

Host plant: *Geranium sanguineum* L. (Geraniaceae)

Eriophyoid species: *Epitrimerus geranii*

Host plant: *Geranium sylvaticum* L. (Geraniaceae)

Eriophyoid species: *Aceria geranii*

Host plant: *Helianthemum oleandicum* subsp. *incanum* (Willk.) G. Lopez (Cistaceae)
Eriophyoid species: *Aculus helianthemi*

Host plant: *Helianthemum nummularium* (Cav.) Losa & Rivas Goday (Cistaceae)
Eriophyoid species: *Aceria rosalia*

Host plant: *Hypericum maculatum* Crantz (Hypericaceae)
Eriophyoid species: *Aculus hyperici*

Host plant: *Juglans regia* L. (Juglandaceae)
Eriophyoid species: *Aceria erinea*, *Aceria tristriata*

Host plant: *Juniperus communis* L. (Cupressaceae)
Eriophyoid species: *Platiphytopus juniperi*, *Trisetacus juniperinus*

Host plant: *Ligustrum vulgare* L. (Oleaceae)
Eriophyoid species: *Shevtchenkella ligustri*

Host plant: *Laurus nobilis* L. (Lauraceae)
Eriophyoid species: *Cecidophyes lauri*

Host plant: *Lonicera alpigena* L. (Caprifoliaceae)
Eriophyoid species: *Calepitrimerus peryclimeni*, *Phyllocoptes xyllostei*

Host plant: *Lonicera caprifolia* L. (Caprifoliaceae)
Eriophyoid species: *Phyllocoptes lonicerarum*

Host plant: *Lonicera xylosteum* L. (Caprifoliaceae)
Eriophyoid species: *Phyllocoptes xyllostei*

Host plant: *Malus sylvestris* Mill. (Rosaceae)
Eriophyoid species: *Diptacus giganthorhynchus*, *Phyllocoptes malinus*

Host plant: *Mespilus germanica* L. (Rosaceae)
Eriophyoid species: *Eriophyes pyri*

Host plant: *Mentha longifolia* (L.) L. (Lamiaceae)
Eriophyoid species: *Aculodes mckenziei*

Host plant: *Mentha x piperita* L. (Lamiaceae)
Eriophyoid species: *Leipothrix mentae*

Host plant: *Mentha spicata* L. (Lamiaceae)
Eriophyoid species: *Aculops nilotica*

Host plant: *Olea europaea* L. (Oleaceae)
Eriophyoid species: *Aceria oleae*, *Shevtchenkella barensis*

Host plant: *Origanum vulgare* L. (Lamiaceae)

Eriophyoid species: *Aculops clinopodii*, *Epitrimerus jaceae*

Host plant: *Ostrya carpinifolia* Scop. (Betulaceae)

Eriophyoid species: *Aculus comatus*, *Tegonotus depressus*

Host plant: *Picea abies* (L.) H. Karsten (Pinaceae)

Eriophyoid species: *Trisetacus pini*

Host plant: *Pimpinella tragi* Vill. (Apiaceae)

Eriophyoid species: *Aculus pimpinillae*

Host plant: *Pinus mugo* Turra (Pinaceae)

Eriophyoid species: *Trisetacus pini*

Host plant: *Pinus sylvestris* L. (Pinaceae)

Eriophyoid species: *Trisetacus pini*

Host plant: *Populus tremula* L. (Salicaceae)

Eriophyoid species: *Aculus uncutus*, *Phyllocoptes populi*

Host plant: *Primula* sp. (Primulaceae)

Eriophyoid species: *Leipothrix liroi*

Host plant: *Prunella vulgaris* L. (Lamiaceae)

Eriophyoid species: *Aculops clinopodii*

Host plant: *Prunus avium* (L.) L. (Rosaceae)

Eriophyoid species: *Diptacus giganthorhynchus*

Host plant: *Cerasus vulgaris* Mill. (Rosaceae)

Eriophyoid species: *Diptacus giganthorhynchus*

Host plant: *Prunus domestica* L. (Rosaceae)

Eriophyoid species: *Aculus fockeui*, *Diptacus giganthorhynchus*, *Eriophyes emarginated*, *Eriophyes similis*

Host plant: *Prunus* sp. (Rosaceae)

Eriophyoid species: *Aculus fockeui*, *Eriophyes similis*

Host plant: *Prunus spinosa* L. (Rosaceae)

Eriophyoid species: *Aculus fockeui*, *Eriophyes similis*

Host plant: *Punica granatum* L. (Lithraceae)

Eriophyoid species: *Aceria granati*

Host plant: *Pyrus communis* L. (Rosaceae)

Eriophyoid species: *Epitrimerus pyri*, *Eriophyes pyri*

Host plant: *Pyrus domestica* (L.) Ehrh. (Rosaceae)
Eriophyoid species: *Epitrimerus pyri*, *Eriophyes pyri*

Host plant: *Pyrus pyraster* (L.) Du Roi (Rosaceae)
Eriophyoid species: *Eriophyes pyri*

Host plant: *Quercus cerris* L. (Fagaceae)
Eriophyoid species: *Acaricalus cristatus*, *Aceria cerrea*, *Achaetocoptes cerrifoliae*, *Gliptacus faginea*,
Rhyncaphytoptus cerrifoliae, *Rhyncaphytoptus lanuginosae*, *Rhyncaphytoptus longisetosus*,
Rhyncaphytoptus massalongioanus

Host plant: *Quercus ilex* L. (Fagaceae)
Eriophyoid species: *Aceria ilicis*

Host plant: *Rhamnus alpina* L. subsp. *fallax* (Boiss.) M. & P. (Rhamnaceae)
Eriophyoid species: *Calepitrimerus rhamni*

Host plant: *Ribes petraeum* Wulfen (Grossulariaceae)
Eriophyoid species: *Aculus massei*

Host plant: *Rosa canina* L. (Rosaceae)
Eriophyoid species: *Callynthrotus schlechtendali*

Host plant: *Rubus fruticosus* L. (Rosaceae)
Eriophyoid species: *Phyllocoptes gracilis*

Host plant: *Rubus hirsutus* Thunb. (Rosaceae)
Eriophyoid species: *Phyllocoptes gracilis*

Host plant: *Rubus idaeus* L. (Rosaceae)
Eriophyoid species: *Epitrimerus chamaemori*, *Phyllocoptes gracilis*

Host plant: *Salix caprea* L. (Salicaceae)
Eriophyoid species: *Rhyncaphytoptus capreae*, *Rhyncaphytoptus salicisglaucæ*

Host plant: *Salix purpurea* L. (Salicaceae)
Eriophyoid species: *Aculus truncatus*

Host plant: *Salix silesiaca* Willd. (Salicaceae)
Eriophyoid species: *Rhyncaphytoptus capreae*

Host plant: *Salvia verticillata* L. (Lamiaceae)
Eriophyoid species: *Aceria salvia*, *Phyllocoptes obtusus*

Host plant: *Sambucus ebulus* L. (Adoxaceae)
Eriophyoid species: *Epitrimerus trilobus*

Host plant: *Sambucus racemosa* L. (Adoxaceae)
Eriophyoid species: *Eptrimerus trilobus*

Host plant: *Scabiosa silenifolia* Waldst. & Kit. (Caprifoliaceae)
Eriophyoid species: *Aceria squalida*

Host plant: *Sedum ochroleucum* Chaix (Crassulariaceae)
Eriophyoid species: *Aceria destructor*

Host plant: *Seseli tortuosum* Waldst. & Kit. (Apiaceae)
Eriophyoid species: *Aceria peucedani*

Host plant: *Sorbus aria* Crantz (Rosaceae)
Eriophyoid species: *Eriophyes pyri*

Host plant: *Sorbus aucuparia* L. (Rosaceae)
Eriophyoid species: *Aculus aucupariae*, *Eriophyes pyri*, *Phyllocoptes sorbeus*, *Rhyncaphytoptus sorbi*

Host plant: *Sorbus torminalis* (L.) Crantz (Rosaceae)
Eriophyoid species: *Eriophyes pyri*

Host plant: *Spiarea media* Franz Schmidt (Rosaceae)
Eriophyoid species: *Phyllocoptes mihajlovici*

Host plant: *Stachys alopecurus* (L.) Benth. (Lamiaceae)
Eriophyoid species: *Aculus stachysi*, *Eptrimerus jaceae*

Host plant: *Stachys alpina* L. (Lamiaceae)
Eriophyoid species: *Aceria solida*

Host plant: *Taraxacum officinale* Webb. (Compositae)
Eriophyoid species: *Leipothrix taraxaci*

Host plant: *Teucrium chamaedrys* L. (Lamiaceae)
Eriophyoid species: *Anthocoptes octocinctus*

Host plant: *Thymus* sp. (Lamiaceae)
Eriophyoid species: *Aceria thomasi*

Host plant: *Tilia* sp. (Malvaceae)
Eriophyoid species: *Eriophyes tiliae*

Host plant: *Tilia cordata* Mill. (Malvaceae)
Eriophyoid species: *Phytoptus tetratrichus*

Host plant: *Tilia platyphyllos* Scop. (Malvaceae)
Eriophyoid species: *Eriophyes exilis*

Host plant: *Tilia tomentosa* Moench. (Malvaceae)
Eriophyoid species: *Eriophyes tiliae*, *Phytoptus tetratrichus*

Host plant: *Trifolium ochroleucon* Huds. (Leguminosae)
Eriophyoid species: *Aculops eximius*

Host plant: *Tussilago farfara* L. (Compositae)
Eriophyoid species: *Aceria tussilagifoliae*

Host plant: *Vaccinium myrtillus* L. (Ericaceae)
Eriophyoid species: *Phyllocoptes vaccini*

Host plant: *Vitex agnus-castus* L. (Lamiaceae)
Eriophyoid species: *Aceria massalongoi*

Host plant: *Vitis vinifera* L. (Vitaceae)
Eriophyoid species: *Calepitrimerus vitis*, *Colomerus vitis*