Annotated checklist of Georgian oribatid mites

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Family: Otocephalidae Balogh, 1961
Superfamily: Oppioidea Grandjean, 1951
Family: Autognetidae Grandjean, 1960
Family: Epimerellidae Ayyildiz & Luxton, 1989
Family: Machuellidae Balogh, 1983
Family: Oppiidae Grandjean, 1954
Family: Quadroppiidae Balogh, 1983
Family: Thyrisomidae Grandjean, 1953
Superfamily: Trizetoidea Ewing, 1917
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Abstract

A new updated checklist of Georgian oribatid mites is based on the critical review of existing literature data and new findings. The list includes 534 oribatid species of which 21 species are new for the country recorded from more than 390 locations. For each species information of the global and regional distribution is presented with notes on ecological characteristics. As far as necessary we provide remarks on taxonomic issues to overcome the ambiguities and inconsistencies existing in literature.

Key words. Oribatid mites, catalogue, Caucasus biodiversity

Introduction

Oribatid mites represent one of the dominant arthropod groups in the soil environment, with more than 10000 species described (Norton & Behan-Pelletier 2009; Subías 2004, updated in 2015). They can be found through the soil profile, and inhabit aquatic and arboreal habitats as well (Norton & Behan-Pelletier 2009). Oribatid mites are trophically heterogeneous, with species feeding on various types of fungi, detritus, bacteria, algae and small invertebrate animals. They are characterized by k-style life history traits, such as slow development, poor dispersal ability and strong defensive mechanisms (Norton 1994; Norton & Behan-Pelletier 2009).

The Republic of Georgia is located in Caucasus, a biodiversity hot-spot which shelters the most diverse flora and fauna of the temperate region (Zazanashvili et al. 2004). Unlike most other groups of invertebrate animals in Georgia, the oribatid mite fauna is rather well explored. Investigations began with the works of Nadezhda Djaparidze (working period 1963–1990). The first list of Georgian oribatids was published in 1963 (Djaparidze 1963). In this checklist 80 species were recognized, and for each species sampling place and known habitats were ascribed. After this work, several updated checklists appeared dealing with oribatid mites of particular regions of Georgia or the whole country. Darejanashvili (1964) reported 71 morphospecies for Tbilisi and its surroundings, 43 species were registered on Trialeti Range (Djaparidze 1966) and 68 morphospecies were found in Borjom-Bakuriani gorge (Darejanashvili 1967). Reck (1976) provided another complete checklist for whole country with 283 species and Karppinen et al. (1987) indicated the presence of 299 oribatid species in Georgia. The most recent checklist of Georgian oribatid mites listed 340 species (Murvanidze & Darejanashvili 2000), and the catalogue of Stanchaeva & Subías (2010) summarized information for Caucasian oribatid mite fauna in total, reporting 553 morphospecies for Georgia.

Unfortunately, in many cases in early literature detailed information on the geographic position of sampling locations was not provided, which resulted in uncertain distribution knowledge of some species. For example, “Georgia”, “Eastern Georgia”, “Upper Kartli” etc. are used as only location data, but these broad geographical units are not sufficient for regional biogeographic and ecological assessment of species. All the more recent checklists repeat many vague indications which make these references less useful.

After the publication of the catalogue of Shtanchaeva & Subías (2010), new species were described for Georgia (Murvanidze & Behan-Pelletier 2011; Murvanidze & Weigmann 2012; Murvanidze 2014; Shtanchaeva et al. 2010; Shtanchaeva & Subías 2012, 2012a) and new records for Georgian and Caucasian fauna were added (Mumladze et al. 2015; Murvanidze et al., 2011, 2015; Murvanidze & Mumladze 2014; Murvanidze & Todria 2015). Niedbala (2015) expressed doubts concerning the taxonomic status of several species described by Shtanchaeva & Subías (2012). Subsequent unpublished work by the authors during 2010–2014 years added many new data on the distribution of certain species in the Georgian territories. These data enrich our knowledge of local and regional oribatid biodiversity including some new and rare oribatid species and their specific habitat preferences (like dead wood, canopy, caves, etc.).

The discovery of mistakes concerning species distributions and several disagreements with the systematic placement of certain species provided by Shtanchaeva and Subías (2010), along with the new published and unpublished data on the oribatid diversity in Georgia, led us to prepare this upgraded checklist of Georgian oribatid mites. During preparation of checklist, we encountered problems regarding old type material of Djaparidze and Darejanashvili. Most of original material is lost or badly damaged and we could not check the specimens. (Luccoppia nicora Djaparidze, 1986, Flexa bidens Djaparidze, 1990, F. horreo Djaparidze, 1990, Oribatula beccus Djaparidze, 1990, Æremaeus longiseta Djaparidze, 1990, Liacarus curtus Djaparidze, 1985, Carabodes egregius

Additionally, the quality of several descriptions is mostly far off modern standard, which makes it difficult to assess these problematic species. Nevertheless, several species described by Djaparidze are recently indicated as junior synonyms of other species (Dorycranosus ovatus, D. ibericus, Liacarus curtus, L. sphaericus, Lucoppia orientalis, Phauloppia saakadzei, P. longiporosa, Amazoppia caucasica, Oribatella simikova) (Subías 2004, electronically updated in 2015).

Herein, we report 534 species for Georgia, of which 21 species are new records for the country.

Material and methods

The presented checklist is an extraction of the catalogue of Shtanchaeva & Subías (2010) (hereafter Catalogue), enriched by subsequently published data (Mumladze et al. 2015; Murvanidze & Behan-Pelletier 2011; Murvanidze & Weigmann 2012; Murvanidze 2014; Murvanidze & Todria 2015; Shtanchaeva et al. 2010; Shtanchaeva & Subías 2012, 2012a), along with our recent unpublished data. We made reference to older sources only if the data provided by Shtanchaeva & Subías (2010) was unclear or questionable. In this checklist we indicate only those oribatids which are identified to species level, and no morphospecies and subspecies are considered. We include all species with at least one certain locality indication and omit species with uncertain or questionable occurrence in Georgia; however these latter species are discussed in the results section. We follow generally the family classification and nomenclature of Schatz et al. (2011). The superfamily and family names also follow the nomenclature of Schatz et al. (2011). In a “remark” section at species with conflicting classification or nomenclature compared with the data provided by Shtanchaeva & Subías (2010), we explain our understanding of taxonomic issues. Information on species’ ecology (if available) is provided in an “ecology” section, following Behan-Pelletier & Eamer (2007), Schatz (2004), Weigmann (2006), Weigmann et al. (2015), original descriptions, other special papers and our own experience.

Specific synonyms of the species are listed only as far as regarding cited Caucasus literature.

Global distribution data are based on Subías (2004, updated in 2015), while local (Georgian) distribution is based mostly on our own exact geo-referenced data. Bibliographic data on distribution are frequently too inaccurate to map, however we geo-referenced such records when possible and provide the locality coordinates with accuracy information (see supplement) to make the data accessible for further research. New records for Georgia are marked with single asterisk (*) in the checklist.

The species occurrence in Georgia is subjectively separated into two major categories—Western (W) and Eastern (E) parts of Georgia. This is due to the fact that Georgia is geographically divided by the Surami (Likhi) Range, and climatic conditions of these parts differ significantly (humid and mild in Western and dry continental in the Eastern part of the country), which influences species distribution (Maruashvili 1964).

General results and discussion

The data collected from all available sources indicate that 534 species of oribatid mites are present in Georgia. Among them, 21 species are new records for the country. The distribution data presented here are based on more than 500 sampling locations within the country; however in the electronic supplement we provide 390 localities for which accurate geographic data were available (Fig 1). Among them 166 data points were geo-referenced using literature sources (i.e. spatial bias is less than 2 km) and 224 locations have exact geographic coordinates. Most of the data points (92%) represented in the map and supplement are our own data (already published elsewhere or unpublished), and only 33 sampling locations from the literature published by other authors were sufficient for mapping. We provide only few location points from Abkhazia (north-western Georgia) nevertheless there are many more sampling localities (e.g. Tarba 1974, 1978, 1988, 1993) being not appropriate for mapping.
After examination of all available manuscripts dealing with Georgian oribatids, presence of several species in Georgia was not assured and they were not included in the list: (1) as the location points for Belba daghestanica “Upper Kartli” and “Delisi” are indicated based on the checklists of Djaparidze (1974) and Murvanidze & Darejanashvili (2000). This unclear information is firstly provided in the list of Djaparidze (1974), where only habitat and sampling months are indicated and citations in the later lists (Murvanidze & Darejanashvili 2000; Karppinen et al. 1987, Shtanchaeva 2001; Shtanchaeva & Subias 2010) copied these information; (2) the presence of Triteremella kaszabi Csiszar, 1962 is indicated for “Eastern Georgia” based on the summary of the PhD thesis of Darejanashvili (1976) where only forest types and no geographical locations are indicated. Because there are no voucher specimens preserved in the collections of Djaparidze and Darejanashvili, we cannot prove the presence of these species in the country and did not include them in the list; (3) we did not include in the list Furcoribula pacifica Krivolutsky, 1975 for which Borjomi and Trialeti range are indicated as occurrence points based on the publications of Darejanashvili (2000) and Darejanashvili & Gurgenidze (2004). None of these works provide exact location data and there are no voucher specimens available; (4) Papillacarus pavlovskii Bulanova-Zachvatkina 1960, Plasmobates pagoda Grandjean, 1929, Anomaloppia chitinofincta (Kulijev 1962), Ramusella debililamellata (Kulijev 1962), Ramuloppia ramiseta (Balogh, 1959), Metabelba limastetosa Bulanova-Zachvatkina, 1962, Suctobelbella palustris (Forsludn, 1953) and Suctobelbella dargoltsiana (Krivolutsky, 1966) are indicated in several locations of Georgia (Batumi and Ochamchire) based on the publication of Bulanova-Zachvatkina (1970). We examined this publication and found that these species are indicated for whole Mediterranean region without mentioning on exact location data; (5) Ceretozetella bregetovae Shaldybina, 1970 is indicated for Stepantsminda (former Kazbegi) after original description. However, Shaldybina mentions “military Ossetian highway” without proper indication of sampling location; (6) Eupelops latipilosus (Ewing, 1909) is indicated for Ritsa and Martkopi after Djaparidze (1974, 1979), however, none of these publications record this species; (7) Gymnodamaeus glabra (Mihelčič 1957) and Lohmannia turcmenica Bulanova-Zachvatkina, 1960 are wrongly indicated for Tbilisi, “Upper Kartli” and “Eastern Georgia” after Djaparidze (1974); (8) old checklists (Karppinen et al. 1987; Murvanidze and Darejanashvili 2000) and the Catalogue report presence of Collohmmania gigantea Sellnick, 1922 in Musera; however, Norton and Sidorchuk (2014) state that this record should be discarded, because it is based on the undescribed Collohmmania species; (9) Joelia spina Kulijev, 1979, Oppiella (Perspicuoppia) minidentata Subias, 1976, Punctoribates hexagonus (Berlese, 1908) and Oromurcia bicuspidata Thor, 1930 are incorrectly indicated for Ritsa after Tarba (1976); (10) Lepidozetes latipilosus Hammer, 1952 is incorrectly indicated for Dmanisi after Murvanidze & Darejanashvili (2000); (11) Spinozetes pectinatus (Kulijev, 1967) is also wrongly indicated for Borjomi and Bakuriani after Darejanashvili (1967); (12) For several locations in Georgia presence of Berniniella inornata (Mihelčič, 1957) is indicated, based on the manuscripts of Murvanidze et al. (2004) and Murvanidze & Kvavadze (2007), however, this species is not indicated in these manuscripts and provided data are incorrect; (13) Presence of Pergalumna curva (Ewing, 1907) in Poti is indicated in the Catalogue after Djaparidze (1974), however, this publication does not cite this species for Georgia and we discarded presence of this species in Georgia. Several other species reported by the Catalogue for Georgia also need further confirmation or systematic review. In particular, the Catalogue indicates the presence of Sphaerochthonius ovatus Sergienko, 1991, Nothophthiracarus (Caliptophthiracarus) candidulus (Niedbala, 1983), Phthiracarus (P.) compressus Jacot, 1930, Macronothrus nasalis (Willmann, 1929), and Trhypochthonius setantis Golosova, 1983 in Georgia, but with no indication of specific location. This information was based on the electronic database of the collection in the Siberian Zoological Museum (http://szmn.sbras.ru/Inverteb/Oribatida.htm), where for each species only the country of finding is indicated, without any further explanation or literature evidence. Hence no specific information is available, and we regard these species as having uncertain occurrence in Georgia.

In spite of the well-covered sampling scheme, many species are reported only from a single location (112 species) or from several locations with mutual distance of more than 100 km (more than 50 species). We suppose that the oribatid fauna of Georgia still needs further extensive investigation to provide complete picture of species diversity and distribution. This is also evident from the pace of new discoveries. In particular, the cumulative curves for the new species descriptions as well as for new records in Georgia are not flattened over time (Fig. 2), indicating that further research will definitely and significantly enrich oribatid mite diversity of Georgia and the Caucasus.
Figure 1. Map of study area with the points of data collection. Note that the sampling locations (in total 390) are the same as provided in the supplementary material.

Figure 2. The cumulative pattern of finding new oribatid mite species for Georgia (left panel) and new species for the science (right panel) for 50 years started from the time of first acarological publications on Georgian oribatid mites.

Figure 6. Sample based rarefaction curve of oribatid mites of Georgia. The dashed line indicates extrapolated expected species richness (vertical line) with increasing the sampling intensity (horizontal axis). The shaded area along the curve indicates the confidence intervals after 100 butstrap raplicate.
Checklist

Superfamily: Acaronychoidea Grandjean, 1932

Family: Acaronychidae Grandjean, 1932

*Zachvatkinella caucasica* Lange, 1972
Distribution in Georgia. W: Gagra, Pitsunda, New Aphon (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Litter of the coastal mixed forests (Lange 1972)

Superfamily: Palaeacaroidea Grandjean, 1932

Family: Palaeacaridae Grandjean, 1932

*Palaeacarus caucasicus* Lange, 1972
Distribution in Georgia. W: Pitsunda (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest litter (Lange 1972a)

Superfamily: Brachychthonioidea Thor, 1934

Family: Brachychthoniidae Thor, 1934

*Brachychthonius berlesei* Willmann, 1928
Distribution in Georgia. W: Ritsa Reserve, Musera, New Aphon, Likani*; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Humid meadows, broadleaved and coniferous forest soils

*Brachychthonius pseudoimmaculatus* Subíás & Gil-Martin, 1991
Distribution in Georgia. W: Bzyb, E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

*Liochthonius alpestris* (Forsslund, 1958)
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Liochthonius asper* Chinone, 1978
Distribution in Georgia. W: Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Liochthonius brevis* (Michael, 1888)
Distribution in Georgia. W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats, with the preference of forest soils
Liochthonius horridus (Sellnick, 1928)
Distribution in Georgia. W: Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Liochthonius hystricinus (Forsslund, 1942)
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

Liochthonius lapponicus (Trägårdh, 1910)
Distribution in Georgia. E: Tbilisi, David Gareji (Murvanidze & Kvavadze 2006)
Global distribution. Holarctic
Ecology. Soils in arid woodlands, semideserts

Liochthonius leptaleus Moritz, 1976
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Europe
Ecology. Forest soils

Liochthonius sellnicki (Thor, 1930)
Syn.: Liochthonius scalaris (Forsslund, 1942) sensu Djaparidze 1974
Distribution in Georgia. W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Humid meadows and forest soils

Liochthonius strenzkei Forsslund, 1963
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Open habitats and forest soils

Poecilochthonius italicus (Berlese, 1910)
Distribution in Georgia. W: Itkhvisi E: Martkopi (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Xerophilic, dry meadows

Sellnickochthonius rostratus (Jacot, 1936)
Distribution in Georgia. W: Bzyb, Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest and meadow soils

Sellnickochthonius suecicus (Forsslund, 1942)
Distribution in Georgia. W: Ritsa Reserve, Bzyb, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Cosmopolitan
Ecology. Forest soils

Synchthonius elegans Forsslund, 1956
Distribution in Georgia. W: Musera (Shtanchaeva & Subías 2010), Itkhvisi*, Likhi range*.
Global distribution. Holarctic
Ecology. Dry meadows according to Weigmann et al. (2015). In Georgia is found in forest soils
Superfamily: Atopochthonioidea Grandjean, 1949

Family: Atopochthoniidae Grandjean, 1949

*Atopochthonius artiodactylus* Grandjean, 1948

**Distribution in Georgia.** W: Sokhumi, Ochamchire (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

*Atopochthonius maimaensis* Grishina, 1971

**Distribution in Georgia.** W: Bzyb, Sataplia Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

Superfamily: Hypochthonioidea Berlese, 1910

Family: Eniochthoniidae Grandjean, 1947

*Eniochthonius minutissimus* (Berlese, 1904)

**Syn.:** *Hypochthoniella minutissima* (Berlese, 1904) *sensu* Darejanashvili & Gurgenidze 2004, Murvanidze *et al.* 2013, Murvanidze & Arabuli, 2015

**Distribution in Georgia.** W: Sokhumi, Ochamchire, Chanchakhi glacier, Poti, Kintrishi Reserve, Mtirala National Park, Rgani, Darkveti, Itkhvisi, Akhalkalaki; E: Tbilisi, Didgori, Mariamjvari Reserve, Gombori range (Murvanidze *et al.* 2013; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Acidic forest and bog soils

Family: Hypochthoniidae Berlese, 1910

*Eohypochthonius crassisetiger* Aoki, 1959

**Distribution in Georgia.** W: Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Hypochthonius luteus* Oudemans, 1917

**Distribution in Georgia.** Whole country, but rare (Shtanchaeva & Subías 2010)

**Global distribution.** Cosmopolitan

**Ecology.** All types of habitats

*Hypochthonius rufulus rufulus* C.L. Koch, 1834

**Distribution in Georgia.** Whole country (Murvanidze & Arabuli 2015; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Cosmopolitan

**Ecology.** Various types of habitats with preference for swamp and forest soils

Family: Lohmanniidae Berlese, 1916

*Papillacarus abchasicus* Tarba, 1989

**Distribution in Georgia.** W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Papillacarus aciculatus (Berlese, 1905)
Distribution in Georgia. E: Tbilisi (Murvanidze et al. 2008), Algety National Park, Gardabani (Murvanidze & Todria 2015)
Global distribution. Palaearctic
Ecology. Urban and forest soils

Family: Mesoplophoridae Ewing, 1917

Archoplophora rostralis (Willmann, 1930)
Distribution in Georgia. W: Bzyb, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

Mesoplophora michaeliana Berlese, 1904
Phthiracarus (Phthiracarulus) perexiguus Berlese, 1920 sensu Shtanchaeva & Subías 2010
Distribution in Georgia. Whole Western part of the country except high altitudes (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Wet and humid forest soils

Mesoplophora pulchra Sellnick, 1928
Distribution in Georgia. W: Kolkheti National Park, whole Ajara region (Murvanidze et al. 2015; Shtanchaeva & Subías 2010); E: Ujarma*, Kazreti*
Global distribution. Palaearctic
Ecology. Wet and humid forest soils

Superfamily: Protoplophoroidea Ewing, 1917

Family: Cosmochthoniidae Grandjean, 1947

Cosmochthonius lanatus (Michael, 1885)
Distribution in Georgia. W: Ritsa Reserve, Musera; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Cosmopolitan
Ecology. In Georgia is found in forest soils of different humidity

Phyllozetes tauricus Gordieva, 1978
Distribution in Georgia. E: Gardabani (Murvanidze & Todria 2015)
Global distribution. Palaearctic
Ecology. Arid soils

Family: Sphaerochthoniidae Grandjean, 1947

Sphaerochthonius splendidus (Berlese, 1904)
Distribution in Georgia. W: Ritsa Reserve, Musera, Sokhumi (Shtanchaeva & Subías 2010); E: Tbilisi
Global distribution. Pantropical and subtropical (Southern Holarctic)

Ecology. Dry urban and forest soils. We have encountered this species only in spring and fall.

*Sphaerochthonius suzukii* Aoki, 1977

**Distribution in Georgia.** E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus and Japan

**Ecology.** In Georgia the species is found in mixed forest litter (Shtanchaeva & Subías 2010)

*Sphaerochthonius transversus* Wallwork, 1960

**Distribution in Georgia.** E: Tbilisi (Shtanchaeva & Subías 2010)

**Global distribution.** Tropical and Southern Palaearctic

**Ecology.** Dry forest soils

Superfamily: *Heterochthonioidea* Grandjean, 1954

Family: *Heterochthoniidae* Grandjean, 1954

*Heterochthonius caucasicus* Krivolutsky, 1977

**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

*Heterochthonius gibbus* (Berlese, 1910)

**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Shows preference for moss

Superfamily: *Eulohmannioidea* Grandjean, 1931

Family: *Eulohmanniidae* Grandjean, 1931

*Eulohmannia ribagai* (Berlese, 1910)

**Distribution in Georgia.** W: Musera, Sakeni (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Mesohygrophilic, forest soils

Superfamily: *Perlohmannioidea* Grandjean, 1954

Family: *Perlohmanniidae* Grandjean, 1954

*Perlohmannia coiffaiti* Grandjean, 1961

**Distribution in Georgia.** W: Ritsa Reserve, Sakeni, Ochamchire (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Perlohmannia dissimilis* (Hewitt, 1908)

**Distribution in Georgia.** W: Ochamchire (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils
*Perlohmanniia zachvatkini* (Bulanova-Zachvatkina, 1960)

**Syn.:** *Neolohmannia zachvatkini* Bulanova-Zachvatkina, 1960 *sensu* Djaparidze 1963, 1974

**Distribution in Georgia.** E: Lagodekhi (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Superfamily: Epilohmannioidea Eudemens, 1923**

**Family: Epilohmanniidae Oudemans, 1923**

*Epilohmannia cylindrica* (Berlese, 1904)

**Distribution in Georgia.** Whole country (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Cosmopolitan

**Ecology.** Dry soils

*Epilohmannia gigantea* Berlese, 1917

**Distribution in Georgia.** Whole country, rare (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Epilohmannia ovata* Aoki, 1961

**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Epilohmannia styriaca* Schuster, 1960

**Distribution in Georgia.** W: Musera, Ochamchire (Shtanchaeva & Subías 2010)

**Global distribution.** Europe

**Ecology.** Humid forest soils

**Remark.** In Weigmann (2006) the species is reported as xerothermophil for Germany, but in Georgia it was found in humid subtropical forest soils in the Abkhazia region (Krivolutsky & Tarba 1972). This is the only record of this species in Georgia. In other parts of Caucasus it is found in Lenkoran Region (Azerbaijan) (Kulije 1961), which shelters humid subtropical and humid temperate forests as well.

**Superfamily: Euphthiracaroidea Jacot, 1930**

**Family: Euphthiracaridae Jacot, 1930**

*Acrotritia ardua* (C.L. Koch, 1841)

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Cosmopolitan

**Ecology.** All types of habitats

**Remark.** Most records in Caucasian literature are under synonym *Rhysotritia ardua*. As finding locations for *A. ardua*, Musera is indicated in the checklist of Karppinen *et al.* (1987) with reference to Krivolutsy & Tarba (1971) and Niedbala (1983a), however, neither of these publications contains records on *A. ardua*. For Ritsa Reserve, Shtanchaeva & Subías (2010) report the presence of *Acrotritia hyeroglyphica* (Berlese, 1916). Subías and Arillo (2000) and Mahunka (1991) accept it as a valid species; however, it is regarded as a junior synonym of *A. ardua* by Bernini *et al.* (1995) and Niedbala (1993, 2002, 2004). Based on the revision of oribatid mites from Berlese’s collection presented by Niedbala (1993), we accept *A. hyeroglyphica* as a junior synonym of *A. ardua*. 
Euphthiracarus cribrarius (Berlese, 1904)
Distribution in Georgia. W: Musera, New Aphon (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Broadleaved and coniferous forest soils

Euphthiracarus monodactylus (Willmann, 1919)
Distribution in Georgia. W: Ritsa Reserve (Shtanchaeva & Subías 2010), Kintrishi Reserve (Murvanidze et al. 2008a), Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Humid forest soils

Euphthiracarus reticulatus (Berlese, 1913)
Distribution in Georgia. W: Ochamchire; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Alder forest soils in western Georgia and city park in Tbilisi

Microtritia minima (Berlese, 1904)
Distribution in Georgia. W: Ritsa Reserve, Ispani Reserve; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Semicosmopolitan
Ecology. Humid forest soils

Mesotritia grandjeani (Feider & Suciu, 1957)
Distribution in Georgia. W: Kintrishi Reserve, Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Semicosmopolitan
Ecology. Humid forest soils

Mesotritia nuda (Berlese, 1887)
Distribution in Georgia. W: Ritsa Reserve, Sakeni (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils and tree bark

Oribotritia berlesei (Michael, 1898)
Distribution in Georgia. Whole country, but rare (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Does not show habitat specificity

Oribotritia serrata Feider & Suciu, 1958
Global distribution. Mediterranean
Ecology. Forest soils

Paratritia baloghi Moritz, 1966
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010), Kolkheti National Park; E: Algethi Reserve
Global distribution. Palaearctic
Ecology. Forest soils

Superfamily: Phthiracaroidea Perty, 1841

Family: Phthiracaridae Perty, 1841
Austrophthiracarus candidulus (Niedbala, 1983)

Syn.: Notophthiracarus (Calyptophthiracarus) candidulus (Niedbala, 1983) sensu Shtanchaeva & Subías, 2010

Distribution in Georgia. Ritsa Reserve (Shtanchaeva & Subías 2010)

Global distribution. Caucasus

Ecology. Forest soils

Austrophthiracarus vicinus (Niedbala, 1984)


Distribution in Georgia. Whole country (Shtanchaeva & Subías 2010)

Global distribution. Mediterranean

Ecology. All types of habitats

Hoplophthiracarus illinoisensis (Ewing, 1909)

Syn.: Phthiracarus pavidus van der Hammen, 1963 sensu Djaparidze, 1966, 1974; Notophthiracarus (Calyptophthiracarus) pavidus (Berlese, 1913) sensu Shtanchaeva & Subías, 2010

Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

Global distribution. Semicosmopolitan

Ecology. All types of habitats

Remark. Weigmann (2006) indicated Hoplophthiracarus pavidus van der Hammen, 1963 as a junior synonym of H. illinoisensis and added that this species is frequently confused with Hoplodermia pavidum Berlese, 1913 (cf. Niedbala 2011). In previous publications (Djaparidze 1966, 1974; Darejanashvili & Gurgenidze 2004, Murvanidze & Darejanashvili 2000) the presence of H. pavidus (Berlese, 1913) was reported for several locations in Georgia. After examination of material from different locations of Georgia together with Prof. Weigmann (2001-2002), we identified the individuals of “H. pavidus” from Georgia as H. illinoisensis. In the Catalogue, both H. illinoisensis and Notophthiracarus (Calyptophthiracarus) pavidus are indicated for Georgia. We have strong concerns that all these records relate to H. illinoisensis.

Phthiracarus (Phthiracarus) assimilis Niedbala, 1983

Distribution in Georgia. W: Kala*

Global distribution. Caucasus

Ecology. Alpine meadow

Remark. This species was described by Niedbala (1983a) from samples provided by N. Djaparidze in 1974. In the description the proper locations of the holotype and paratypes are not indicated. It is said that “the sampling was provided in Kartli region, 20 km northern from Tbilisi”. Because of unclear information, we did not include this location in the checklist.

Phthiracarus (P) boresetosus Jacot, 1930

Distribution in Georgia. W: Mtirala National Park (Shtanchaeva & Subías 2010)

Global distribution. Holarctic

Ecology. Humid forest soils

Phthiracarus (P) compressus Jacot, 1930

Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)

Global distribution. Holarctic

Ecology. Wet to humid forest soils

Phthiracarus. (P) ferrugineus (C.L. Koch, 1841)

**Distribution in Georgia.** whole country (Murvanidze et al. 2013, 2015; Murvanidze & Mumladze, 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Phthiracarus (P) italicus* (Oudemans, 1900)

**Distribution in Georgia.** W: whole Abkhazian region (Shtanchaeva & Subías 2010)

**Global distribution.** Holartic

**Ecology.** Presumably in humid forest soils

**Remark.** Niedbala (2011, p. 220) indicates it as species inquirenda. Weigmann et al. (2015) list the species as *P. ferrugineus* ssp. italicus.

*Phthiracarus (P) laevigatus* (C.L. Koch, 1841)


**Distribution in Georgia.** whole country (Murvanidze et al. 2013; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

**Remark.** In older literature (see synonyms) presence of *Phthiracarus piger* (Scopoli, 1763) is indicated for several locations of Georgia. After Niedbala (1992) and Weigmann (2006) it is *species inquirinda* which is impossible to identify as any modern described species. It is regarded as synonym to *P. laevigatus* by Willmann (1931).

*Phthiracarus (P) lentulus* (C.L. Koch, 1841)

**Distribution in Georgia.** W: whole Abkhazian region, Kolkheti National Park, Goderdzy pass, Bako Mountain Kvabiskhevi Reserve; E: Dmanisi (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Holartic

**Ecology.** All types of habitats

*Phthiracarus (P) nitens* (Nicolet, 1855)

**Distribution in Georgia.** W: Kolkheti National Park*

**Global distribution.** Palaearctic

**Ecology.** Wet and humid bog and forest soils

*Phthiracarus (P) opacus* Niedbala, 1986

**Distribution in Georgia.** W: Kolkheti National Park*, Racha*; E: Likani*, Tserovani*

**Global distribution.** Caucasus

**Ecology.** All types of habitats

*Phthiracarus (P) propinquus* Niedbala, 1983

**Distribution in Georgia.** W: Pitsunda, Sakeni, Idliani, Batumi Botanical Garden, Mtirala National Park (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

*Phthiracarus (P) subdolus* Niedbala, 1983

**Distribution in Georgia.** W: Ritsa Reserve, Bzyb, New Aphon (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

*Phthiracarus (Archiphthiracarus) anonymus* Grandjean, 1933

**Distribution in Georgia.** Whole country (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Pantropical and subtropical
Ecology. All types of habitats

*Phthiracarus (A.) baloghi Feider & Suciu, 1957*

Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Southern Europe
Ecology. Humid forest soils

*Phthiracarus (A.) bryobius Jacot, 1930*

Distribution in Georgia. W: Ritsa Reserve, Ochamchire, Anaklia, Kintrishi Reserve, Mtirala National Park, Sataplia (Shtanchaeva & Subías, 2010)
Global distribution. Holarctic
Ecology. Humid forest soils

*Phthiracarus (A.) crassus Niedbała, 1983*

Distribution in Georgia. Whole country (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Humid forest soils

*Phthiracarus (A.) furvus Niedbała, 1983*

Distribution in Georgia. W: Ochamchire, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaeartic
Ecology. Humid forest soils

*Phthiracarus (A.) globosus (C.L. Koch, 1841)*

Distribution in Georgia. W: Musera, Batumi Botanical Garden, Kolkheti National Park, Mtirala National Park, Kutaisi, Tsalktubo, Nagarevi grotto; E: Gombori range (Murvanidze 2014, Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils
Remark. For Batumi Botanical Garden Shtanchaeva and Subías (2010) report presence of *Phthiracarus (P.) sphaerulus* Banks (1895); however, this species is regarded as a junior synonym of *P. globosus* (Niedbała 1986, 2002; Mahunka & Mahunka-Papp 2004)

*Phthiracarus (A.) montanus Perez-Iñigo, 1969*

Syn.: *Phthiracarus murphy* Harding, 1976 sensu Murvanidze & Kvavadze 2009

Distribution in Georgia. W: Ritsa Reserve, Musera, Banguriani, Kolkheti National Park, Urta Mountain*, Tsaghveri; E: Tbilisi (Shtanchaeva & Subías 2010), Kobi*, Lagodekhi Reserve (Murvanidze & Kvavadze 2007)
Global distribution. Holarctic
Ecology. Forest soils

*Steganacarus (Steganacarus) flagellatissimus Mahunka, 1979*

Distribution in Georgia. W: Korolistavi (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Humid forest soils

*Steganacarus (S.) magnus (Nicolet, 1855)*

Distribution in Georgia. W: Bzyb, Musera, Batumi Botanical Garden, Bakuriani (Shtanchaeva & Subías 2010), Mtirala National Park (Murvanidze et al. 2015), Racha, Sairme, Onchevi; E: Batasa-Babaneuri Reserve (Shtanchaeva & Subías 2010), Kavtiskhevi (Murvanidze & Todria 2015), Uplistsikhe*, Tbilisi*, Tsodoreti*.
Global distribution. Palaeartic
Ecology. Forest soils of different humidity; however, was also found in dry ruderal site on the abandoned quarry (Murvanidze & Todria 2015)
**Steganacarus (S.) spinosus** (Sellnick, 1920)

*Distribution in Georgia.* Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

*Global distribution.* Palearctic

*Ecology.* Swamps and forest soils

**Steganacarus (Atropacarus) csiszariae** (Balogh & Mahunka, 1979)

*Syn.*: *Atropacarus csiszariae* (Balogh & Mahunka, 1979) *sensu* Shtanchaeva & Subías, 2010

*Distribution in Georgia.* E: Gombori range (Shtanchaeva & Subías 2010)

*Global distribution.* European

*Ecology.* Forest soils

**Steganacarus (A.) immundus** Niedbala, 1983

*Syn.*: *Atropacarus immundus* Niedbala, 1983 *sensu* Shtanchaeva & Subías, 2010

*Distribution in Georgia.* W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

*Global distribution.* Mediterranean

*Ecology.* Litter

**Steganacarus (A.) maculosus** Niedbala, 1983

*Syn.*: *Atropacarus maculosus* Niedbala, 1983 *sensu* Shtanchaeva & Subías, 2010

*Distribution in Georgia.* E: Martkopi (Shtanchaeva & Subías 2010), Algety Reserve*

*Global distribution.* Caucasus

*Ecology.* Forest litter and soil

**Steganacarus (A.) obesus** Niedbala, 1983

*Syn.*: *Atropacarus obesus* Niedbala, 1983 *sensu* Shtanchaeva & Subías, 2010

*Distribution in Georgia.* W: Ritsa Reserve, Bzyb (Shtanchaeva & Subías 2010)

*Global distribution.* Caucasus

*Ecology.* Forest litter

*Remark.* Shtanchaeva & Subías (2012a) described *A. obesus minimus*. In the revision of Caucasian pticytous mites Niedbala (2015) compares this description with own description of *Atropacarus (A.) obesus* and states that both descriptions are identical. The finding of Shtanchaeva and Subías is regarded as a new location for *S. (A.) obesus* in Caucasus.

**Steganacarus (A.) ochraceus** Niedbala, 1983

*Distribution in Georgia.* E: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

*Global distribution.* Eastern Mediterranean

*Ecology.* Forest soils

**Steganacarus (A.) parvulus** (Niedbala, 1983)

*Distribution in Georgia.* W: Kala*, Batumi Botanical Garden (Shtanchaeva & Subías 2010)

*Global distribution.* Caucasus

*Ecology.* Alpine meadow

**Steganacarus (A.) phyllophorus** (Berlese, 1904)

*Distribution in Georgia.* W: Batumi Botanical Garden, Sairme, Kvabiskhevi Reserve; E: Khashuri, Tsodoreti, Tbilisi, Algety Reserve, Mariamjvari Reserve (Shtanchaeva & Subías 2010), Kazreti*

*Global distribution.* European

*Ecology.* Humid forest soil

**Steganacarus (A.) plakatisi** (Mahunka, 1979)

*Distribution in Georgia.* E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

Remark. Shtanchaeva & Subias (2012) described S. (T.) achmedovi from various locations in Caucasus including Georgia. Niedbala (2015) compared this description with description of S. (A.) plakatisi from Greece by Mahunka (1979). He indicated the similarities in body size, sculpture, length and shape of prodorsal and notogastral setae and sensilli; as the only difference the number of ng setae (17–18 pairs in A. achmedovae and 16 – in A. plakatisi) is regarded, but Niedbala regarded this character as variable. Hence, the Caucasian findings are considered as new locations of S. (A.) plakatisi.

Steganacarus (A.) serratus Feider & Suciu, 1957
Distribution in Georgia. W: Anaklia, Kintrishi Reserve; E: Tusheti, Gombori range (Shtanchaeva & Subias 2010), Mariamjvari Reserve, Kazreti
Global distribution. Mediterranean
Ecology. Forest soils

Steganacarus (A) striculus (C.L. Koch, 1835)
Distribution in Georgia. W: Banguriani, Idliani, Kolkheti National Park, Kintrishi Reserve, Goderdzi Pass, Motsameta; Kidobana cave; E: Algethy Reserve (Murvanidze 2014; Shtanchaeva & Subias 2010)
Global distribution. Semicosmopolitan
Ecology. Forest soils

Steganacarus (Tropacarus) carinatus carinatus (C.L. Koch, 1841)
Syn.: Steganacarus pulcherrimus (Berlese, 1887) sensu Karppinen et al. 1987, Murvanidze & Darejanashvili 2000; Tropacarus carinatus (C.L. Koch, 1841) sensu Djaparidze 1974, Krivolutsky & Tarba 1972; Tropacarus pulcherrimus (Berlese, 1887) sensu Djaparidze 1974, Krivolutsky & Tarba 1972
Distribution in Georgia. Whole country (Murvanidze et al. 2015; Shtanchaeva & Subias 2010)
Global distribution. Palaearctic
Ecology. All types of habitats


Steganacarus (T.) callainii Bernini, S., Bernini & Avanzati, 1989
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subias 2010)
Global distribution. Mediterranean
Ecology. Forest soils

Steganacarus. (T) patruelis Niedbala, 1983
Distribution in Georgia. W: Ritsa Reserve, Musera, Ochamchire, Banguraini, Kala*, Sairme, Kolkheti National Park, Mira National Park, Batumi Botanical Garden, Sataplia Reserve, Itkhvisi, Kvabiskhevi Reserve; E: Khashuri, Algethy Reserve (Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subias 2010)
Global distribution. Mediterranean
Ecology. Wet and humid soils

Superfamily: Crotonioidea Thorell, 1876
Family: Crotoniidae Thorell, 1876
Camisia biurus (C.L. Koch, 1839)
Distribution in Georgia. E: Likhi Range, Tbilisi, Dmanisi, Mariamjvari Reserve (Shtanchaeva & Subias 2010)
Global distribution. Holarctic
Ecology. Degraded swamps and coniferous forest soils.

*Camisia biverrucata* (C.L. Koch, 1839)
**Distribution in Georgia.** W: Abkhazia, Batumi Botanical Garden; E: Dmanisi, Sioni, Tbilisi, Kojori, Tetritskaro (Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** Forest and meadow soils

*Camisia horrida* (Hermann, 1804)
**Distribution in Georgia.** W: Ritsa Reserve, Kolkheti National Park, Mtirala National Park, Sataplia Reserve, Tskaltubo, Racha, Akhaldaba, Borjomi, Tsagveri, Kvabiskhevi Reserve; E: Khevska, Shenako, Sioni, Batsara-Babaneuri Reserve, Gombori range, Tbilisi (Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** Soil, moss, forest and street tree trunks

*Camisia lapponica* (Trägårdh, 1910)
**Distribution in Georgia.** E: Algethy Reserve, Mariamjvari Reserve, Lagodekhi Reserve (Shtanchaeva & Subías 2010)
**Global distribution.** Boreoalpine
**Ecology.** Coniferous and mixed forest soils

*Camisia segnis* (Hermann, 1804)
**Syn.:** *Camisia bicarinata* (C.L. Koch, 1839) sensu Djaparidze 1974
**Distribution in Georgia.** W: Mtirala National Park, Aspindza, Borjomi; E: Sioni, Batsara-Babaneuri Reserve, Tbilisi, Algety Reserve, Kldekari (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
**Global distribution.** Semicosmopolitan
**Ecology.** Prefers canopy habitats, rare in soil

*Camisia spinifer* (C.L. Koch, 1835)
**Distribution in Georgia.** W: Ritsa Reserve (Shtanchaeva & Subías 2010), Oni, Kvabiskhevi Reserve (Murvanidze & Mumladze 2014); E: Sioni, Manglisi, Tbilisi (Shtanchaeva & Subías 2010)
**Global distribution.** Semicosmopolitan
**Ecology.** Conifer forest soils and tree trunks

*Heminothrus longisetosus* Willmann, 1925
**Distribution in Georgia.** W: Musera (Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** Forest soils

*Heminothrus paolianus* (Berlese, 1913)
**Distribution in Georgia.** W: Musera (Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** Forest soils

*Heminothrus targionii* (Berlese, 1885)
**Distribution in Georgia.** W: Ritsa Reserve, Bzyb, Mtirala National Park, Akhaldaba, Borjomi, Sairme, Oni; E: Khashuri, Omalo, Batsara-Babaneuri Reserve (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** Mountain forest soils
**Platynothrus peltifer** (C.L. Koch, 1835)


**Distribution in Georgia.** Whole country (Murvanidze & Arabuli 2015; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Semicosmopolitan

**Ecology.** All types of habitats

**Family: Hermanniidae Sellnick, 1928**

**Hermannia gibba** (C.L. Koch, 1839)

**Distribution in Georgia.** Whole country, but rare (Murvanidze & Arabuli 2015; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

**Family: Malaconothridae Berlee, 1916**

**Malaconothrus globiger** Trägårdh, 1910

**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Palaeartic

**Ecology.** Forest soils

**Malaconothrus monodactylus** (Michael, 1888)

Syn.: *Malaconothrus egregius* (Berlee, 1904) *sensu* Djaparidze 1974; Karppinen *et al.* 1987; Murvanidze & Darejanashvili 2000; *Malaconothrus processus* Hammén, 1952 *sensu* Shtanchaeva & Subías 2010

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Wet meadows, swamps and forest soils

**Remark.** For Abkhazian region of Georgia, presence of *M. processus* Hammén, 1952 is reported by Shtanchaeva and Subías (2010); however, this species is known as a junior synonym of *M. monodactylus* (Weigmann 2006).

**Tyrphonothrus glaber** (Michael, 1888)

Syn.: *Trimalaconothrus glaber* (Michael, 1888) *sensu* Colloff & Cameron 2013

**Distribution in Georgia.** W: Batumi Botanical Garden, Borjomi, Tsemi; E: Manglisi, Tbilisi (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

**Family: Nanhermanniidae Sellnick, 1928**

**Nanhermannia elegantula** Berlee, 1913

**Distribution in Georgia.** W: Ritsa Reserve, Musera, New Aphon; Batumi Botanical Garden; E: Lagodekhi Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Broadleaved and coniferous forest soils

**Nanhermannia komareki** Kunst, 1956

**Distribution in Georgia.** E: Saguramo (Shtanchaeva & Subías 2010)
Global distribution. European
Ecology. Wet mosses and acidic forest soils

*Nanhermannia nana* (Nicolet, 1855)

**Distribution in Georgia.** Whole country (Murvanidze et al. 2011; Mumladze & Murvanidze 2013; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Semicosmopolitan

Ecology. Bogs, wetlands, wet and humid forest soils

*Nippohermannia parallela* (Aoki, 1961)

**Distribution in Georgia.** W: Sataplia Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

Ecology. Forest soils

Family: *Nothridae* Berlese, 1896

**Nothrus anauniensis** Canestrini & Fanzago, 1876

**Distribution in Georgia.** Whole country, frequent in Eastern part of the country

**Global distribution.** Cosmopolitan

Ecology. Forest soils

**Remark.** In checklists of Georgian and Caucasian oribatid mites (Djaparidze 1974, Karppinen et al. 1987; Murvanidze & Darejanashvili 2000; Shtanchaeva 2001), *N. anauniensis* was reported from Abkhazia and *N. biciliatus* C.L. Koch, 1841 was reported from the rest of the Georgia. In the world checklist of Subías (2004, updated in 2015), *N. biciliatus* is considered as a junior synonym of *N. anauniensis*. In the Catalogue the presence of *N. anauniensis* is reported for the same locations in Georgia, where *N. biciliatus* was previously registered.

**Nothrus borussicus** Sellnick, 1928

**Distribution in Georgia.** Mountainous regions of the country (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

Ecology. Alpine meadows and mountain forests

**Nothrus longipilus** (Berlese, 1910)

**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** European

Ecology. Forest soils

**Nothrus macedi** Beck, 1962

**Distribution in Georgia.** W: Ipari, Banguriani (Shtanchaeva & Subías 2010)

**Global distribution.** Neotropicals and Palaearctic

Ecology. Alpine meadows

**Nothrus palustris** C.L. Koch, 1839

**Distribution in Georgia.** W: Kolkheti National Park, Kvabiskhevi Reserve; E: Tavkvetila Mountain (Arabuli G. et al. 2008; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

Ecology. Wet and humid forest soils

**Nothrus parvus** Sitnikova, 1975

**Distribution in Georgia.** E: Batsara-Babaneuri Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

Ecology. Forest soils
Nothrus pratensis Sellnick, 1928
Distribution in Georgia. W: Kolkheti National Park, Jurukveti; E: Sioni, Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Wet and humid soils, swamps
Remark. As one of the locality records, Trialeti range is indicated in the Catalogue after publications of Darejanashvili (2000) and Darejanashvili & Gurgenidze (2004). However, in Darejanashvili (2000) only forest type is indicated without geographical location and in Darejanashvili & Gurgenidze (2004) this species is not listed at all. Also “Eastern Georgia” as a whole is regarded as one sampling point, which cannot be regarded as single locality. So, we excluded these locations from the list.

Nothrus silvestris Nicolet, 1855
Distribution in Georgia. W: Tetnuldi Mountain,* Ritsa Reserve, Ajara region, Racha range, Itkhvisi; E: Norio, Algethy Reserve, Lagodekhi Reserve (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Alpine meadows and forest soils

Family: Trhypochthoniidae Willmann, 1931

Trhypochthonius tectorum (Berlese, 1896)
Distribution in Georgia. Whole country (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Cosmopolitan
Ecology. Weigmann (2006) indicates this species to be rare in forest soils and frequent in dry meadow mosses, however in Georgia it is mostly found in dry to mesophil forest soils and rarely in open meadows

Superfamily: Hermannielloidea Grandjean, 1934

Family: Hermanniellidae Grandjean, 1934

Hermanniella aliverdievae Shtanchaeva & Subías, 2012
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Hermanniella clavigera Berlese, 1908
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. USA, Caucasus
Ecology. Forest soils

Hermanniella dolosa Grandjean 1931
Distribution in Georgia. W: Ritsa Reserve, Musera, Kolkheti National Park, Kintrishi Reserve, Batumi Botanical Garden, Sataplia Reserve; E: Sioni (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Wet and humid forest soils

Hermanniella granulata (Nicolet, 1855)
Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils
Hermanniella multipora Sitnikova, 1973
Distribution in Georgia. W: Bzyb, Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Hermanniella punctulata Berlese, 1908
Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holartic
Ecology. Forest soils

Hermanniella reticulata Sitnikova, 1973
Distribution in Georgia. W: Sataplia Reserve (Shtanchaeva & Subías 2010)
Global distribution. Holartic
Ecology. Forest soils

Hermanniella serrata Sitnikova, 1973
Distribution in Georgia. W: Batumi Botanical Garden, Racha range, Likhi range; E: Khashuri, Batsara-Babaneuri Reserve, Gombori range, Algety Reserve (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Family Plasmobatidae Grandjean, 1961

Plasmobates pagoda Grandjean, 1929
Distribution in Georgia. W: Ochamchire (Shtanchaeva & Subías 2010)
Global distribution. Tropical
Ecology. Forest soils

Superfamily Neoliodoidea Sellnick, 1928

Family Neoliodidae Sellnick, 1928

Neoliodes theleproctus (Hermann, 1804)
Syn.: Liodes theleproctus (Hermann, 1804) sensu Karppinen et al. 1987 and Murvanidze & Darejanashvili, 2000
Distribution in Georgia. Eastern part of the country (Murvanidze & Kvavadze 2006; Shtanchaeva & Subías 2010)
Global distribution. Semicosmopolitan
Ecology. Xerophilic, arboricolous, arid woodlands, dry meadows, semi-deserts

Platyliodes scaliger (C.L.Koch, 1839)
Distribution in Georgia. W: Abkhazia, Borjomi gorge (Shtanchaeva & Subías 2010)
Global distribution. Holartic
Ecology. Dry meadow soils according to Weigmann et al. (2015), in Georgia is found in forest soils

Poroliodes farinosus (C.L.Koch, 1840)
Syn.: Liodes farinosus (C.L.Koch, 1840) sensu Krivolutsky & Tarba 1972
Distribution in Georgia. W: Musera, Mitrala National Park, Borjomi gorge; E: Shatili, Algety Reserve (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Arboricolous, rare in forest and meadow soils
Superfamily: Plateremaeoidea Trägårdh, 1928

Family: Aleurodamaeidae Paschoal & Johnston, 1984

*Aleurodamaeus setosus* (Berlese, 1883)

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Aleurodamaeus trichosus* (Kulijev, 1979)

**Distribution in Georgia.** W: Ritsa Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

Family: Gymnodamaeidae Grandjean, 1954

*Gymnodamaeus austriacus* Willmann, 1935

**Distribution in Georgia.** E: Tbilisi (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Xerothermophilic, forests, urban soils, semi-deserts

*Gymnodamaeus bicostatus* (C.L. Koch, 1836)

**Distribution in Georgia.** W: Ritsa Reserve, Sokhumi, Paliastomi Lake; E: Tbilisi, Algethy Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

*Gymnodamaeus frondeus* (Kulijev, 1979)

**Distribution in Georgia.** W: Borjomi gorge; E: Tbilisi, David Gareji, Vashlovani Reserve (Murvanidze & Kvavadze 2006; Murvanidze *et al.* 2008; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Xerothermophilic, forests, urban soils, semi-deserts

**Remark.** In the previous publications (Murvanidze & Kvavadze 2006; Murvanidze & Mumladze 2014, Murvanidze *et al.* 2008, 2013) the species was erroneously reported as *Jacotella ornata* (Perez-Inigo, 1972). After reexamination of the material, we identified it as *G. frondeus*.

*Arthrodamaeus femoratus* (C.L. Koch, 1840)


**Distribution in Georgia.** Whole country (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Meadow and forest soils

*Arthrodamaeus mongolicus* Bayartogtokh & Weigmann, 2005

**Syn.:** *Adrodamaeus mongolicus* (Bayartogtokh & Weigmann, 2005) *sensu* Shtanchaeva & Subías 2010

**Distribution in Georgia.** W: Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Arthrodamaeus starki* (Bulanova-Zachvatkina, 1967)

**Syn.:** *Adrodamaeus starki* (Bulanova-Zachvatkina, 1967) *sensu* Shtanchaeva & Subías 2010; *Allodamaeus starki*
Family: Licnobelbidae Grandjean, 1965

*Licnobelba caesarea* (Berlese, 1910)
*Distribution in Georgia.* W: Bzyb (Shtanchaeva & Subías 2010)
*Global distribution.* Mediterranean
*Ecology.* Forest soils

*Licnobelba latiflabellata* (Paoli, 1908)
*Distribution in Georgia.* W: Mtirala National Park, Darkveti; E: Tetritskaro (Shtanchaeva & Subías 2010)
*Global distribution.* Palearctic
*Ecology.* Forest and meadow soils

Family: Licnodamaeidae Grandjean, 1954

*Licnodamaeus costula* Grandjean, 1931
*Distribution in Georgia.* E: Tbilisi*
*Global distribution.* Mediterranean
*Ecology.* Arid woodlands

*Licnodamaeus pulcherrimus* (Paoli, 1908)
*Distribution in Georgia.* W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010)
*Global distribution.* Palearctic
*Ecology.* Forest soils
*Remark.* As one of the locations for this species, Eastern Georgia is indicated in the Catalogue based on the summary of the doctoral thesis of Sh. Darejanashvili (1976); however, in the summary only forest types are indicated without indication of any geographical location. We have not found this species in the eastern part of the country. Because of the unclear information, this distributional data is discarded.

*Licnodamaeus undulatus* (Paoli, 1908)
*Distribution in Georgia.* W: Bzyb, Ajara region, Darkveti, Borjomi gorge; E: Tbilisi (Shtanchaeva & Subías 2010)
*Global distribution.* Palearctic
*Ecology.* Forest soils

Family: Plateremaeidae Trägårdh, 1926

*Lopheremaeus mirabilis* (Csizsar, 1962)
*Distribution in Georgia.* W: Tetnuldi Mountain*, Machakhela gorge, Pushurkauli, Bako Mountain.; E: Tbilisi, Algethy Reserve, Kavtiskhevi (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Alpine meadows, forest and urban soils

Superfamily: Damaeoidea Berlese, 1896

Family: Damaeidae Berlese, 1896

*Belba bartosi* Winkler, 1955
Distribution in Georgia. W: Batumi Botanical Garden, Sataplia (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Coniferous forest soils

*Belba corynopus* (Hermann, 1804)
Distribution in Georgia. W: Musera, Batumi Botanical Garden, Kintrishi Reserve; E: Kazreti (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Humid forest soils

*Belba dubinini* Bulanova-Zachvatkina, 1962
Distribution in Georgia. Whole country (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Belba sculpta* Mihelčič, 1957
Distribution in Georgia. W: Anaklia, Mtirala National Park, Itkhis; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

*Damaeobelba minutissima* (Sellnick, 1929)
Distribution in Georgia. W: Kintrishi Reserve, Mtirala National Park, Vakijvari (Murvanidze et al. 2015)
Global distribution. Palaearctic
Ecology. Humid forest soils

*Damaeus alpinus* (Schweizer, 1956)
Syn.: *Parabelbella alpina* (Schweizer, 1956) sensu Shtanchaeva & Subías 2010
Distribution in Georgia. W: Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Damaeus crispatus* (Kulczynski, 1902)
Syn.: *Hypodamaeus crispatus* (Kulczynski, 1902) sensu Djapuridze 1974; Karppinen *et al.* 1987; Murvanidze & Darejanashvili 2000
Distribution in Georgia. W: Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & Subías 2010), Tetnuldi Mountain*
Global distribution. Palaearctic
Ecology. Forest soils

*Damaeus echinopus* Bulanova-Zachvatkina, 1957
Distribution in Georgia. W: Abchazian region (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils
**Damaeus glycyphagoides** Bulanova-Zachvatkina, 1957  
Syn.: *Hypodamaeus glycyphagoides* Bulanova-Zachvatkina, 1957 *sensu* Tarba 1976  
**Distribution in Georgia.** W: Ritsa Reserve (Shtanchaeva & Subías 2010)  
**Global distribution.** Caucasus  
**Ecology.** Forest soils

**Damaeus gracilipes** (Kulczynski, 1902)  
**Distribution in Georgia.** W: Chorokhi River gorge*, Chokhatauri*; E: Kvabiskhevi Reserve*  
**Global distribution.** Holarctic  
**Ecology.** Moss and litter

**Damaeus pseudoaurotus** Bulanova-Zachvatkina, 1957  
Syn.: *Hypodamaeus pseudoaurotus* Bulanova-Zachvatkina, 1957 *sensu* Djaparidze 1974; Karppinen *et al.* 1987; Murvanidze & Darejanashvili 2000  
**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)  
**Global distribution.** Caucasus  
**Ecology.** Forest soils

**Damaeus riparius** Nicolet, 1855  
Syn.: *Hypodamaeus riparius* (Nicolet, 1855) *sensu* Krivolutsky & Tarba 1972  
**Distribution in Georgia.** W: Sokhumi (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaearctic  
**Ecology.** Moss and litter

**Epidamaeus aleinikovae** (Bulanova-Zachvatkina, 1964)  
**Distribution in Georgia.** W: Sataplia Reserve (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaeartic  
**Ecology.** Forest soils

**Epidamaeus bituberculatus** (Kulczynski, 1902)  
**Distribution in Georgia.** W: Kvabiskhevi Reserve (Murvanidze & Mumladze 2014)  
**Global distribution.** Palaeartic  
**Ecology.** Forest soils

**Epidamaeus flexispinosus** (Kunst, 1961)  
**Distribution in Georgia.** E: Khashuri (Shtanchaeva & Subías 2010)  
**Global distribution.** Mediterranean  
**Ecology.** Forest soils

**Epidamaeus pinguis** (Kulijev, 1967)  
**Distribution in Georgia.** W: Kidobana and Shareula caves (Murvanidze 2014)  
**Global distribution.** Caucasus  
**Ecology.** Cave entrance

**Epidamaeus setiger** (Kulczynski, 1902)  
**Distribution in Georgia.** W: Bzyb, Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaeartic  
**Ecology.** Moss and litter

**Metabelba filippovae** Bulanova-Zachvatkina, 1965  
**Distribution in Georgia.** W: Sokhumi (Shtanchaeva & Subías 2010), Kolkheti National Park  
**Global distribution.** Caucasus  
**Ecology.** Forest soils
Metabelba flagelliseta Bulanova-Zachvatkina, 1965
Distribution in Georgia. Whole country (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Humid forest soils

Metabelba italica Sellnick, 1931
Distribution in Georgia. W: Pushurkauli; E: Saguramo, Tbilisi (Shtanchaeva & Subías 2010), Saparlo*
Global distribution. European
Ecology. Forest soils

Metabelba monilipeda Bulanova-Zachvatkina, 1965
Distribution in Georgia. W: Kintrishi Reserve, Batumi Botanical Garden, Mtirala National Park (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Europe
Ecology. Humid forest soils

Metabelba papillipes (Nicolet, 1855)
Distribution in Georgia. W: whole country (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010); E: Tbilisi
Global distribution. Holarctic
Ecology. Forest soils

Metabelba propexa (Kulezynski, 1902)
Distribution in Georgia. W: Kvabiskhevi Reserve*
Global distribution. Europe
Ecology. Forest soils

Metabelba pseudoitalica Bulanova-Zachvatkina, 1965
Distribution in Georgia. W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010), Parto Tskali Lake*, Borjomi gorge*, Akhalkalaki*.
Global distribution. Caucasus
Ecology. Humid forest soils

Metabelba pulverosa Strenzke, 1953
Distribution in Georgia. Whole country (Murvanidze & Mumladze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats

Metabelba rara Bulanova-Zachvatkina, 1965
Distribution in Georgia. W: Tetnuldi Mountain,* Ritsa Reserve, Musera, Sokhumi, Anaklia, Kintrishi Reserve, Tsutskhvati cave, Oni, Aspindza; E: Tbilisi, Algety Reserve (Murvanidze, 2014; Shtanchaeva & Subías 2010)
Global distribution. Palaeartic
Ecology. Humid forest soils

Metabelbella macerochaeta Bulanova-Zachvatkina, 1965
Distribution in Georgia. W: Ritsa Reserve, Pitsunda, Kolkheti National Park, vil. Pushurkauli, Sakajia cave, Tsagveri; E: Algety Reserve (Murvanidze 2014; Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

*Metabelbella zachvatkini* Bulanova-Zachvatkina, 1957
Distribution in Georgia. W: Batumi Botanical Garden; E: Saguramo, Dmanisi (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

*Porobelba spinosa* (Sellnick, 1920)
Global distribution. Palaearctic
Ecology. Forest soils

*Spatiomedusa fageti* Bulanova-Zachvatkina, 1957
Distribution in Georgia. W: Gelati*
Global distribution. Mediterranean
Ecology. Moss, litter, peat bogs

Superfamily: Eutegaeoidea Woolley, 1965

Family: Compactozetidae Luxton, 1988

*Caucaseremaeus krivolutski* Shtanchaeva & Subías, 2006
Distribution in Georgia. W: Mtirala National Park*
Global distribution. Caucasus
Ecology. Forest soils

*Cepheus caucasicus* Sitnikova, 1975
Distribution in Georgia. W: Ritsa Reserve, Kolkheti National Park, Mtirala National Park (Murvanidze *et al*. 2015; Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Humid forest soils

*Cepheus dentatus* (Michael, 1888)
Distribution in Georgia. W: Ritsa Reserve, Musera, Tskaltubo, Mtirala National Park; Borjomi gorge, Kvashkhieti; E: Khashuri, Batsara-Babaneuri Reserve, Algethy Reserve (Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Cepheus latus* C.L. Koch, 1835
Distribution in Georgia. W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

*Conoppia palmicincta* (Michael, 1884)
Global distribution. Holarctic
Ecology. Forest soils and tree trunks
**Eupterotegaeus ornatissimus** (Berlese, 1908)

**Distribution in Georgia.** Whole country (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

**Hypocepheus mirabilis** Krivolutsky, 1971

**Distribution in Georgia.** Whole country (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

**Ommatocepheus ocellatus** (Michael, 1882)

**Distribution in Georgia.** W: Pitsunda, Mtirala Reserve (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Subtropical forest canopy

**Oribatodes heterosetosus** Sitnikova, 1975

**Distribution in Georgia.** W: Ritsa Reserve, Sakeni, Banguriani, Mtirala National Park, Darkveti, Racha region, Borjomi gorge; E: Dedoplistskaro, Algethy Reserve (Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils, rare in steppes

**Superfamily: Microzetooidea Grandjean, 1936**

**Family: Microzetidae Grandjean, 1936**

**Berlesezetes auxiliaris** (Grandjean, 1936)

**Distribution in Georgia.** W: Sokhumi (Shtanchaeva & Subías 2010); E: Tbilisi, Gardabani (Murvanidze & Todria 2015)

**Global distribution.** Pantropical

**Ecology.** Dry and humid forest soils and meadows

**Berlesezetes aff. cuspidatus** Mahunka, 1982

**Distribution in Georgia.** E: Dedoplistskaro*

**Global distribution.** Mediterranean

**Ecology.** Steppe soils

**Remark.** Georgian finding has some differences from original species regarding lamellar length and shape of the rostrum. The first author has sent the individuals to Dr. Sergey Ermilov who compared them with type material of Mahunka. Based on morphology alone, Georgian find is not a new species, although the genetic analysis may prove the contrary.

**Microzetes caucasicus** (Krivolutsky, 1967)

**Syn.:** Nellacarus caucasicus Krivolutsky, 1967 *sensu* Djaparidze 1974; Karppinen *et al.* 1987; Murvanidze & Darejanashvili 2000, Murvanidze & Kvavadze 2009

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Humid forest soils and meadows
**Miracarus hurkai** Kunst, 1959  
*Distribution in Georgia.* W: Tsivtskala cave (Murvanidze 2014)  
*Global distribution.* European  
*Ecology.* Cave entrance

**Superfamily: Ameroidea Bulanova-Zachvatkina, 1957**

**Family: Ameridae Bulanova-Zachvatkina, 1957**

*Amerus polonicus* Kulczynski, 1902  
*Distribution in Georgia.* W: Tsemi, Mtirala National Park; E: Khashuri (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010), Kazreti*  
*Global distribution.* Southern Palaearctic  
*Ecology.* Forest soils

*Amerus troisii* (Berlese, 1883)  
*Distribution in Georgia.* W: Ritsa Reserve, Musera, Sokhumi, Kintrishi Reserve, Darkveti; E: Batsara-Babaneuri Reserve, Gombori range, Mariamjvari Reserve, Algety Reserve, Vashlovani Reserve (Shtanchaeva & Subías 2010)  
*Global distribution.* Mediterranean  
*Ecology.* Forest soils

**Family: Amerobelbidae Grandjean, 1961**

*Amerobelba decedens* Berlese, 1908  
*Distribution in Georgia.* Whole country (Murvanidze *et al.* 2013, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Forest soils

*Rastellobata rastelligera* (Berlese, 1908)  
*Syn.: Amerobelba rastelligera* (Berlese, 1908) *sensu* Djaparidze 1974; Karppinen *et al.* 1987  
*Distribution in Georgia.* E: Tbilisi (Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Dry soils

**Family: Caleremaeidae Grandjean, 1965**

*Caleremaeus monilipes* (Michael, 1882)  
*Distribution in Georgia.* W: Ritsa Reserve, Musera, Ispani bogs, Kintrishi Reserve, Mtirala National Park, Itkhvisi; E: Batsara-Babaneuri Reserve (Murvanidze & Arabuli 2015; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Forest soils

**Family: Ctenobelbidae Grandjean, 1965**

*Ctenobelba heterosetosa* Murvanidze & Weigmann, 2007  
*Distribution in Georgia.* W: Mtirala National Park (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

*Ctenobelba pectinigera* (Berlese, 1908)
Distribution in Georgia. W: Sokhumi (Shtanchaeva & Subías 2010)
Global distribution. European
Ecology. Forest soils and dry, open biotops

*Ctenobelba pilosella* Jeleva, 1962
Distribution in Georgia. W: Musera, Ajara region, Darkveti*; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

*Ctenobelba translamellata* Iordansky, 1990
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

Family: Damaeolidae Grandjean, 1965

*Damaeolus asperatus* (Berlese, 1904)
Distribution in Georgia. W: Bzyb, Musera, Poti, Mtirala National Park, Sataplia Reserve; E: Khashuri, Kazreti* (Murvanidze et al. 2015; Shtanchaeva & Subias 2010)
Global distribution. Holarctic
Ecology. Forest soils

*Damaeolus ornatisimus* Csiszar, 1962
Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Murvanidze et al. 2015; Shtanchaeva & Subias 2010). Frequent, but low quantities
Global distribution. Palaeartic
Ecology. All types of habitats

*Fosseremus laciniatus* (Berlese, 1905)
Distribution in Georgia. W: Ritsa Reserve, Bzyb, Sataplia Reserve; E: Tbilisi, Algety Reserve, Kazreti (Shtanchaeva & Subias 2010)
Global distribution. Cosmopolitan
Ecology. Forest soils

Family: Eremobelbidae Balogh, 1961

*Eremobelba geographica* Berlese, 1908
Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subias 2010)
Global distribution. Palaeartic
Ecology. Forest soils

*Eremobelba gracilior* Berlese, 1908
Distribution in Georgia. Batumi Botanical Garden (Shtanchaeva & Subias 2010)
Global distribution. Holarctic
Ecology. Forest soils
Family: Eremulidae Grandjean, 1965

*Eremulus flagellifer* Berlese, 1908
Distribution in Georgia. W: Kolkheti National Park; E: Tbilisi (Shtanchaeva & Subías 2010), Kvareli*, Gremi*
Global distribution. Cosmopolitan
Ecology. Forest soils and meadows

Family: Hungarobelbidae Miko & Trave, 1996

*Hungarobelba visnyai* (Balogh, 1943)
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010), Itkhvisi*
Global distribution. Palaearctic
Ecology. Forest soils

Family: Spinozetidae Balogh, 1972

*Spinozetes inexpectatus* Piffl, 1966
Distribution in Georgia. E: Tbilisi*, Kazreti*
Global distribution. Europe
Ecology. Arid forest soils

Superfamily: Zetorchestoidea Michael, 1898

Family: Eremaeidae Oudemans, 1900

*Eremaeus hepaticus* C.L. Koch, 1836
Distribution in Georgia. Whole country (Murvanidze *et al.* 2013, 2015; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils, tree trunks and moss

*Eremaeus longiseta* Djaparidze, 1990
Distribution in Georgia. E: Eladri steppes (Djaparidze 1990a)
Global distribution. Caucasus
Ecology. Steppe soil

*Eremaeus tuberosus* Gordeeva, 1970
Distribution in Georgia. W: Ritsa Reserve, Musera; Tsaghveri (Shtanchaeva & Subías 2010).
Global distribution. Palaearctic
Ecology. Forest soils

*Eueremaeus oblongus* (C.L. Koch, 1836)
Distribution in Georgia. W: Ritsa Reserve, Musera, Batumi Botanical Garden, Mtirala National Park, Goderdzidz pass, Itkhisvi, Tsemi; E: Khashuri, Batsara-Babaneuri Reserve, Tbilisi, Mtskheta, Tserovani, Algethy Reserve, Shuamta, Mere, Mariamjvari Reserve (Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils and tree trunks
Family: Zetorchestidae Michael, 1898

*Microzetorchestes emeryi* (Coggi, 1898)

Distribution in Georgia. W: Sokhumi; E: Tbilisi (Shtanchaeva & Subías 2010)

Global distribution. Palaearctic

Ecology. Dry meadows

*Zetorchestes micrornychus* (Berlese, 1883)

Syn.: *Zetorchestes falzonii* Coggi, 1898 *sensu* Murvanidze *et al.* 2013, Murvanidze 2014

Distribution in Georgia. Whole country (Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

Global distribution. Palaearctic

Ecology. Forest soils

Remark. Weigmann (2006) accepts name *Z. falzonii* Coggi, 1898 after Krisper (1984). He also indicates that middle European findings of *Z. micrornychus* which are regarded as *Z. falzonii* need to be proved. Subías (2004 electronic update 2015) accepted name *Z. micrornychus* for Palaearctic region and placed *Z. falzonii* as a synonym. Unless the differences between these two species are identified, I prefer to use the species name, which is widely used in Caucasian literature.

*Zetorchestes flabrarius* Grandjean, 1951

Distribution in Georgia. W: Borjomi (Darejanashvili, 2000)

Global distribution. Mediterranean

Ecology. Dry meadows

Remark. As the distribution sites of this species Eastern Georgia and Trialeti range are indicated in the Catalogue. After the examination of original source (Darejanashvili, 2000), the correct location in Borjomi was defined.

*Zetorchestes phyllosetus* Mahunka, 1977

Distribution in Georgia. W: Bzyb; E: Khashuri (Shtanchaeva & Subías 2010)

Global distribution. Mediterranean

Ecology. Forest soils

Superfamily: Gustavioidea Oudemans, 1900

Family: Astegistidae Balogh, 1961

*Cultroribula bicultrata* (Berlese, 1905)

Distribution in Georgia. W: widespread (Murvanidze *et al.* 2011, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010); E: Kazreti*

Global distribution. Holarctic

Ecology. Humid forest soils

*Cultroribula confinis* Berlese, 1908

Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

Global distribution. Palaearctic

Ecology. Forest soils

*Furcoribula furcillata* (Nordenskiold, 1901)

Distribution in Georgia. E: Algethy Reserve, vil. Mere (Shtanchaeva & Subías 2010)

Global distribution. Holarctic

Ecology. Forest soils
Family: Gustaviidae Oudemans, 1900

**Gustavia fusifer** (C.L. Koch, 1841)
*Distribution in Georgia.* W: Ochamchire, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
*Global distribution.* Palaearctic
*Ecology.* Humid forest soils

**Gustavia longicornis** (Berlese, 1904)
*Distribution in Georgia.* W: Ritsa Reserve, Bzyb (Shtanchaeva & Subías 2010)
*Global distribution.* Mediterranean
*Ecology.* Forest soils

**Gustavia maior** (Berlese, 1904)
*Distribution in Georgia.* W: Ritsa Reserve, Bzyb (Shtanchaeva & Subías 2010)
*Global distribution.* European
*Ecology.* unclear

**Gustavia microcephala** (Nicolet, 1855)
*Distribution in Georgia.* Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
*Global distribution.* Palaearctic
*Ecology.* Forest soils

Family: Liacaridae Sellnick, 1928

**Adoristes (Adoristes) ovatus** (C.L. Koch, 1840)
*Syn.:* Adoristes poppei (Oudemans, 1906) *sensu* Djaparidze 1974; Karppinen *et al.* 1987; Krivolutsky & Tarba 1972, Murvanidze & Darejanashvili 2000
*Distribution in Georgia.* Whole country (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
*Global distribution.* Holarctic
*Ecology.* All types of habitats with preference of forest soils

**Adoristes (Gordeeviella) krivolutsky** Shtanchaeva, Subías & Arillo, 2010
*Distribution in Georgia.* W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
*Global distribution.* Caucasus
*Ecology.* Forest soils

**Dorycranosus ovatus** Djaparidze, 1973
*Distribution in Georgia.* E: Tskneti (Djaparidze 1973)
*Global distribution.* Caucasus
*Ecology.* Forest soil
*Remark.* The species is regarded as junior synonym to *D. moraviacus* (Willmann, 1954) by Krivolutsky (1975), but in Weigmann (2006) *D. moraviacus* is listed as junior synonym of *D. acutus* (Pschorn-Walcher, 1951). After examination of holotype, Mahunka (1979) stated *D. ovatus* as a valid species. Subías (2010) created the nomen novum *Liacarus (Dorycranosus) djaparidzae* for this Caucasie species because of homonymy with *Liacarus ovatus* Mihelčič, 1954 after transposition to *Dorycranosus*. The species is mentioned under the same name in the Catalogue (Subías & Shtanchaeva 2010). Since we support the genus *Dorycranosus* Wooley, 1969, we stay with the original species name, *Dorycranosus ovatus*.

**Dorycranosus splendens** (Coggi, 1898)
*Syn.:* Dorycranosus punctulatus (Mihelčič, 1956) *sensu* Shtanchaeva & Subías 2010; *Liacarus moraviacus*
CHECKLIST OF GEORGIAN ORIBATID MITES


**Distribution in Georgia.** Whole country (Murvanidze et al. 2013; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soil

*Dorycranosus zachvatkini* (Kulijev, 1962)

**Distribution in Georgia.** E: Skra, Martkopi (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Moss in meadow

**Remark.** Djaparidze (1973) described *D. ibericus*, which is now regarded as junior synonym of *D. zachvatkini* after Shtanchaeva (2008).

*Liacarus brevilamellatus* Mihelčič, 1955


**Distribution in Georgia.** Whole country (Murvanidze et al. 2013, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils, moss, litter

*Liacarus coracinus* (C.L. Koch, 1841)

**Distribution in Georgia.** W: Musera (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

*Liacarus laterostris* Mihelčič, 1954

**Distribution in Georgia.** W: Musera (Shtanchaeva & Subías 2010)

**Global distribution.** European

**Ecology.** Forest soils

*Liacarus longipilis* Shtancheva, Subías & Arillo, 2010

**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

*Liacarus nitens* (Gervais, 1844)

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Mtirala National Park, Batumi Botanical Garden (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils, moss, litter

*Liacarus perezinigoi* Capilla, 1972

**Distribution in Georgia.** W: Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

*Liacarus subiasi* Shtanchaeva, 2008

**Distribution in Georgia.** W: Sataplia Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Caucasian

**Ecology.** Forest soils
**Liacarus subterraneus** (Koch, 1844)
Syn.: *Liacarus gracilis* Mihelčič, 1954 sensu Krivoloutsky & Tarba 1972
**Distribution in Georgia.** W: Ritsa Reserve, Bzyb, Sokhumi, Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

**Liacarus tubifer** Djaparidze & Melamud, 1990

**Distribution in Georgia.** W: Kintrishi Reserve, Mtirala National Park, Itkhvisi; E: Lagodekhi Reserve, vil. Brili (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

**Liacarus xylariae** (Schrank, 1803)

**Distribution in Georgia.** W: Ritsa Reserve, Sokhumi, Mtirala National Park, Mghvimevi; E: Tbilisi, Mtskheta, Tskneti, Kazreti (Murvanidze et al. 2013, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Scarabacarus longisensillus** Shtanchaeva & Subías 2010

**Distribution in Georgia.** W: Mtirala National Park, Mukhli (Murvanidze et al. 2015)

**Global distribution.** Caucasus

**Ecology.** Humid forest soils

**Stenoxenillus incisus** Grobler et al., 2013

**Distribution in Georgia.** W: Kintrishi Reserve, Kvabiskhevi Reserve, Sairme (Murvanidze & Mumladze 2014; Mumladze et al. 2015)

**Global distribution.** Turkey, Caucasus

**Ecology.** Forest soils

**Xenillus clypeator** Robineau-Desvoidy, 1839

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Sokhumi (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

**Xenillus discrepans** Grandjean, 1936

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Saken; E: Saguramo, Manglisi, Tbilisi, Dmanisi (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Xenillus ibericus** Djaparidze, 1974

**Distribution in Georgia.** W: Bzyb, Ochamchire, Sataplia Reserve, Tsemi, Akhalkalaki; E: Tbilisi, Tskneti, Martkopi, Sioni (Djaparidze 1974)

**Global distribution.** Caucasus

**Ecology.** Arid forest soils, moss, litter

**Xenillus stepensis** Djaparidze, 1974

**Distribution in Georgia.** W: Tsemi, Akhalkalaki; E: Tskhinvali, Tbilisi, Tskneti, Batsara-Babaneuri Reserve (Djaparidze 1974)

**Global distribution.** Caucasus

**Ecology.** Arid forest soils, moss, litter
Xenillus tegeocranus (Hermann, 1804)
Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils, moss, litter

Family: Peloppiidae Balogh, 1943

Ceratoppia abchasica Krivolutsky & Tarba, 1971
Distribution in Georgia. W: Ritsa Reserve, Musera, New Aphon, Kolkheti National Park; E: Tbilisi, Mtskheta (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Ceratoppia bipilis (Hermann, 1804)
Distribution in Georgia. Whole country (Murvanidze et al. 2013; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats

Ceratoppia quadridentata (Haller, 1882)
Distribution in Georgia. Whole country (Murvanidze et al. 2013, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils, rare in meadows

Pyroppia tajikistanica Krivolutsky & Christov, 1970
Distribution in Georgia. W: Ritsa Reserve, Musera, Sokhumi; E: Stepantsminda (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Superfamily: Carabodoidea C.L. Koch, 1837

Family: Carabodidae C.L. Koch, 1837

Austrocarabodes ensifer (Sellnick, 1931)
Distribution in Georgia. W: Rachfa region*
Global distribution. Southern Palaearctic
Ecology. Forest soils

Austrocarabodes foliaceisetus georgiensis Murvanidze & Weigmann, 2007
Distribution in Georgia. E: Kavtiskhevi, Kajiri mnt, Pantishara gorge (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Dry steppe

Carabodes areolatus Berlese, 1916
Distribution in Georgia. W: Tsagveri, Tsemi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils
Carabodes auriculatus Mahunka, 1987
Distribution in Georgia. W: Ritsa Reserve, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Carabodes bidens (Djaparidze, 1990)
Syn.: Flexa bidens Djaparidze, 1990 sensu Djaparidze 1990, Carabodes (Flexa) bidens (Djaparidze 1990) sensu Shtanchaeva & Subías 2010
Distribution in Georgia. W: Tsagveri, Tsemi; E: Ananuri (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils
Remarks: The species was described as Flexa bidens (Djaparidze 1990a). Murvanidze and Weigmann (2007) presented an argumentation to consider the genus Flexa Kulijev, 1977 as a synonym of Carabodes; hereafter all species described as Flexa will be presented under the genus Carabodes.

Carabodes coriaceus C.L. Koch, 1835
Distribution in Georgia. E: Dmanisi, Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Carabodes djaparidzae Murvanidze & Weigmann, 2007
Distribution in Georgia. W: Batumi Botanical Garden; Kvabiskhevi Reserve; E: Shuamta, Omalo, Shatili, Mariamjvari Reserve, Tserovani, Algety Reserve (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Mountain forest soils

Carabodes dubius Kulijev, 1968
Syn.: Carabodes (Flexa) dubius (Kuliev, 1968) sensu Shtanchaeva & Subías 2010
Distribution in Georgia. W: Itkhvisi, Kvabiskhevi Reserve, Likhi range (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Mountain forest soils

Carabodes egregius Djaparidze, 1990
Distribution in Georgia. W: Musera; E: Tskneti (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Mountain forest soils

Carabodes femoralis (Nicolet, 1855)
Distribution in Georgia. W: Kolkheti National Park, Sairme, Ajara region; E: Batsara-Babaneuri Reserve, Algethy Reserve, Ujarma (Mumladze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils, moss, litter, tree bark and canopy.

Carabodes granulatus Banks, 1895
Distribution in Georgia. W: Surami range (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

Carabodes horreo (Djaparidze, 1990)
Syn.: Flexa horreo Djaparidze, 1990 sensu Djaparidze 1990; Carabodes (Flexa) horreo (Djaparidze, 1990) sensu Shtanchaeva & Subías 2010
Distribution in Georgia. W: Becho, Tsaghveri (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Mountain forest soils

*Carabodes kintrishiana* Murvanidze, 2008
Distribution in Georgia. W: Kintrishi Reserve, Mtirala National Park; E: Kavtiskhevi (Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

*Carabodes labyrinthicus* (Michael, 1879)
Distribution in Georgia. W: Ritsa Reserve, Musera, Borjomi gorge; E: Shenako (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils, moss, litter, tree bark and canopy

*Carabodes marginatus* (Michael, 1879)
Distribution in Georgia. W: Ritsa Reserve, Musera, Tsaghveri, Tsemi; E: Dmanisi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Carabodes minusculus* Berlese, 1923
Distribution in Georgia. W: Musera, Tsaghveri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Carabodes procerus* Weigmann & Murvanidze 2003
Distribution in Georgia. W: Ispani bogs, Kintrishi Reserve, Mtirala National Park, Batumi Botanical Garden; E: Gombori range, Kidkari (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Humid forest soils, moss, litter

*Carabodes reticulatus* Berlese, 1913
Distribution in Georgia. W: Tsemi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Carabodes rugosior* Berlese, 1916
Distribution in Georgia. Whole country (Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

*Carabodes schatzi* Bernini, 1976
Distribution in Georgia. W: Tetnuldi Mountain*; E: Batsara-Babaneuri Reserve, Gombori Range, Mariamjvari Reserve (Shtanchaeva & Subías 2010)
Global distribution. Europe
Ecology. Mountain forest soils

*Carabodes scopulae* Kulijev, 1968
Distribution in Georgia. W: Ritsa Reserve, Saken (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Humid forest soils
Remark. Presence of *C. scopulae* is indicated in “Eastern Georgia” based on the summary of the PhD thesis of Darejanashvili (1976), no geographical location is indicated and no voucher specimens are preserved. We did not include this uncertain location in the checklist.

*Carabodes subarcticus* Trägårdh, 1902
Distribution in Georgia. W: Kintrishi Reserve, Tsemi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Coniferous forest soils

*Carabodes tenuis* Forsslund, 1953
Distribution in Georgia. W: Kintrishi Reserve, Mtirala National Park, Tsemi (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Coniferous forest soils

*Carabodes willmanni* Bernini, 1975
Distribution in Georgia. W: Kvabiskhevi Reserve; E: Tavkvetila Mountain, Tbilisi, Norio, Kazreti* (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

*Odontocepheus elongatus* (Michael, 1879)
Distribution in Georgia. W: Musera, Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils
Remark. The presence of *O. elongatus* in the Trialeti range is also indicated in Catalogue based on the publication of Darejanashvili (2000); however, in this paper only the forest type (broadleaved forest) is indicated, without any geographical data. So, we do not provide this location in the checklist.

Family: Otocepheidae Balogh, 1961

*Otocepheus longior* (Berlese, 1905)
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Oriental – Java Island, in botanical garden the species is probably introduced.
Ecology. Forest soils

*Dolicheremaeus montanus* Krivolutski, 1971
Distribution in Georgia. W: Batumi Botanical Garden, Mtirala National Park (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Humid forest soils

Superfamily: Oppioidea Grandjean, 1951

Family: Autognetidae Grandjean, 1960

*Autogneta longilamellata* (Michael, 1885)
Syn.: *Oppia longilamellata* (Michael, 1885) *sensu* Darejanashvili 1967, Djaparidze 1974
Distribution in Georgia. W: Ritsa Reserve, Musera, Tsaltubo, Kvabiskhevi Reserve (Murvanidze & Mumladze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

_Autogneta parva_ Forsslund, 1947
_Distribution in Georgia._ W: Ritsa Reserve, Musera (Shtanchaeva & SUBíAS 2010)
_Global distribution._ Palaearctic
_Ecology._ Coniferous forest soils
_Remark._ In the Catalogue, the records in Borjomi gorge and Manglisi are indicated based on the manuscripts of Darejanashvili (1967), Djaparidze (1974) and the Summary of the PhD thesis of Darejanashvili (1976). We have reexamined these manuscripts and found no record of _A. parva_ for Borjomi gorge. In the summary also no exact location of _A. parva_ was found. So, we did not include these locations in the list.

_Conchogneta dalecarlica_ (Forsslund, 1947)
_Distribution in Georgia._ W: Widespread with low abundance (Murvanidze & Arabuli 2015; Murvanidze _et al._ 2015; Shtanchaeva & SUBíAS 2010)
_Global distribution._ Palaearctic
_Ecology._ Humid forest soils

_Conchogneta traegardhi_ (Forsslund, 1947)
_Distribution in Georgia._ W: widely distributed; E: Ananuri, Algethy Reserve (Murvanidze & Mumladze 2014; Shtanchaeva & SUBíAS 2010)
_Global distribution._ Holarctic
_Ecology._ Forest soils

_Family: Epimerellidae_ Ayyildiz & Luxton, 1989

_Epimerella smirnovi_ (Kulijev, 1962)
_Distribution in Georgia._ E: Tbilisi*, Kvemo Kedi*, Kvareli* and Gremi*.
_Global distribution._ Palaearctic
_Ecology._ Dry meadows and urban soils
_Remark._ In the Catalogue Batumi and Eastern Georgia are indicated as locations for this species. As mentioned in the introduction, “Eastern Georgia” is a geographical unit too large for being regarded as a sampling point. The Batumi location is based on Bulanova-Zachvatkina (1970), but the species is therein listed only in the Mediterranean region.

_Family: Machuellidae_ Balogh, 1983

_Machuella draconis_ Hammer, 1961
_Distribution in Georgia._ W: Ritsa Reserve, Anaklia, Dzudzuana cave, Orpiri cave (Murvanidze 2014; Shtanchaeva & SUBíAS 2010)
_Global distribution._ Palaearctic
_Ecology._ Humid forest soils, caves

_Machuella ventrisetosa_ Hammer, 1961
_Distribution in Georgia._ W: Bzby, Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & SUBíAS 2010)
_Global distribution._ Tropical
_Ecology._ Forest soils
Family: Oppiidae Grandjean, 1954

Abchasiella dentata Gordeeva & Tarba, 1990
Distribution in Georgia. W: Sakeni (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Alpine meadows

Anomaloppia mazandaranica Akrami & Subías, 2007
Distribution in Georgia. W: Bzyb, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Iran and Caucasus
Ecology. Forest soils

Anomaloppia ozkani Ayyildiz, 1989
Distribution in Georgia. W: Bzyb; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Berniniella bicarinata (Paoli, 1908)
Global distribution. Palaearctic
Ecology. Forest soils

Berniniella conjuncta (Stenzke, 1951)
Distribution in Georgia. W: Kintrishi Reserve, Tsagveri (Shtanchaeva & Subías), Orpiri and Ghliana caves (Murvanidze 2014); E: Gombori range (Arabuli et al. 2004).
Global distribution. European
Ecology. Forest soils
Remark. The record in Ritsa Reserve is indicated in the Catalogue after Tarba 1976. After reexamination of this paper we did not find this species listed and removed this location from the list.

Berniniella exempta (Mihelčič, 1958)
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010); E: Tavkvetila Mountain (Arabuli G. et al. 2008)
Global distribution. European
Ecology. Forest soils

Berniniella inornata (Mihelčič, 1957)
Distribution in Georgia. E: Tavkvetila Mountain (Arabuli G. et al. 2008)
Global distribution. European
Ecology. Coniferous forest soils

Berniniella jahnae (Sellnick, 1961)
Syn.: Oppia jahnae (Sellnick, 1961) sensu Darejanashvili 1967, Djaparidze 1974
Distribution in Georgia. W: Batumi Botanical Garden, Tsemi (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils
Berniniella sakeni Gordeeva & Tarba, 1990
Distribution in Georgia. W: Sakeni (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Berniniella serratirostris (Golosova, 1970)
Distribution in Georgia. E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

Berniniella sigma (Strenzke, 1951)
Syn.: Oppia sigma Strenzke, 1951 sensu Tarba 1976
Distribution in Georgia. W: Ritsa Reserve, Borjomi gorge; Aspindza, Tavkvetila Mountain; E: Tbilisi, Norio (Arabuli G. et al. 2008; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Berniniella silvatica (Vasiliu & Calugar, 1976)
Distribution in Georgia. W: Becho, Parto Tskali Lake, Darkveti, Dzudzuana cave, Kvabiskhevi Reserve; E: Sioni, Algety Reserve (Djaparidze 1985; Murvanidze et al. 2013; Murvanidze 2014; Murvanidze & Mumladze 2014)
Global distribution. European
Ecology. Forest and meadow soils

Discoppia cylindrica (Perez-Inigo, 1965)
Distribution in Georgia. W: Musera; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

Dissorhina ornata (Oudemans, 1900)
Syn.: Oppia ornata (Oudemans, 1900) sensu Djaparidze 1974, Krivolutsky & Tarba 1972
Distribution in Georgia. W: widely distributed, common; E: Tsodoreti, Tbilisi, Algethy Reserve, Lagodekhi Reserve (Murvanidze et al. 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Humid forest soils, rare in meadows

Dissorhina signata (Schwalbe, 1989)
Distribution in Georgia. W: Mtirala National Park, Dzudzuana cave; E: Kazreti* (Murvanidze 2014; Murvanidze et al. 2015)
Global distribution. European
Ecology. Cave floor in the dark zone, forest soil

Graptoppia foveolata (Paoli, 1908)
Distribution in Georgia. W: Kolkheti National Park, Orlovka, Efremovka; E: Tbilisi, Dedoplistskaro, Gardabani (Murvanidze & Todria 2015)
Global distribution. Holarctic
Ecology. Forest and meadow soils

Kulievia paradecipiens (Kulijev, 1962)
Distribution in Georgia. W: Musera, Sakeni (Shtanchaeva & Subías 2010)
Global distribution. European
Ecology. Forest soils
Lasiobelba pori Vasiliu, 1995
Distribution in Georgia. E: Kavtiskhevi (Murvanidze & Todria 2015)
Global distribution. Ethiopian and Palaearctic regions, Hawai (Ermilov et al. 2014)
Ecology. Meadow soils

Micropopia arcuata Gordeeva & Tarba, 1990
Distribution in Georgia. W: Ritsa Reserve (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soil

Micropopia minus (Paoli, 1908)
Syn.: Oppia minus (Paoli, 1908) sensu Darejanashvili 1974 and Tarba 1976
Distribution in Georgia. W: Ritsa Reserve, Musera, Pitsunda, Sokhumi, Orlovka, Tavkvetila Mountain, Borjomi gorge; E: Dmanisi, Kobi, Gergeti, Tsodoreti, Tbilisi, Marjamjvari Reserve, Dedoplistskaro, Gardabani, Chiauri forest (Murvanidze et al. 2013, 2015; Murvanidze & Mumladze 2014; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Cosmopolitan
Ecology. All types of habitats

Multioppia carpatica Schalk, 1966
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Mediterranean
Ecology. Forest soils

Multioppia laniseta Moritz, 1966
Distribution in Georgia. E: Tbilisi*
Global distribution. Palaearctic
Ecology. Urban and forest soils

Mystroppia sellnicki Balogh, 1959
Distribution in Georgia. E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Europe
Ecology. Forest soils

Neoamerioppia abchasica (Golosova & Tarba, 1974) sensu Golosova & Tarba, 1974
Syn.: Oppia abchasica Tarba, 1974 sensu Karppinen et al. 1987, Murvanidze & Darejanashvili 2000
Distribution in Georgia. W: Musera, Ochemchire, Anaklia, Sataplia Reserve (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Oppia denticulata (R. & G. Canestrini, 1882)
Distribution in Georgia. W: Sokhumi, Ipari, Imnati, Letsurtsume cave, Orpiri cave, Ghliana cave, Sakire cave (Murvanidze 2014; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Humid forest soils
Remark. In the Catalogue, the presence of this species in Eastern Georgia is based on Darejanashvili (1987; publication date is incorrectly cited in Catalogue as 1975) and Trialeti range after publications of Darejanashvili (2000), Darejanashvili & Gurgendi (2004) and Djaparidze (1966). However, Darejanashvili (1987) did not provide exact geographical location and other mentioned papers do not include information on O. denticulata. So we do not include these locations in the list.
**Oppia nitens** C.L. Koch, 1836  
**Distribution in Georgia.** W: Sokhumi, Kolkheti National Park, Ajara region, Khreiti, Darkveti, Dzudzuana cave, Sakajia cave, Nagarevi grotto, Sataplia Reserve; E: Tserovani, Kavtiskhevi, Kazreti (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Holarctic  
**Ecology.** Wet to humid forest soils, bogs and wetlands

**Oppiella (Oppiella) acuminata** (Strenzke, 1951)  
**Distribution in Georgia.** W: Kintrishi Reserve, Mtirala National Park, Machakhela gorge, Tavkvetila mnt, Tskhratskaro; E: Shatili, Datvijvari pass, Kaspi (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Holarctic  
**Ecology.** Forest soils

**Oppiella (Oppiella) marginedentata** (Strenzke, 1951)  
**Distribution in Georgia.** W: Mtirala National Park (Murvanidze et al. 2015)  
**Global distribution.** Palaearctic  
**Ecology.** Forest soils

**Oppiella (O.) maritima** (Willmann, 1928)  
**Distribution in Georgia.** W: Ritsa-Anadkhara Reserve, Mtirala National Park (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Holarctic  
**Ecology.** Forest soils

**Oppiella (O.) nova** (Oudemans, 1902)  
**Distribution in Georgia.** Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Cosmopolitan  
**Ecology.** All types of habitats

**Oppiella (O.) primorica** (Golosova, 1969)  
**Distribution in Georgia.** W: Avadkhara, Bzyb; E: Khashuri (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaearctic  
**Ecology.** Forest soils

**Oppiella (Lauroppia) doris** (E. Pérez-Iñigo, 1978)  
**Distribution in Georgia.** W: Avadkhara (Shtanchaeva & Subías 2010)  
**Global distribution.** Southern Palaearctic  
**Ecology.** Forest soils

**Oppiella (L.) tenuipectinata** Subías & Rodríguez, 1988  
**Distribution in Georgia.** W: Ritsa-Avadkhara Reserve, Bzyb, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaearctic  
**Ecology.** Forest soils

**Oppiella (Moritzoppia) keilbachi** (Moritz, 1969)  
**Distribution in Georgia.** W: Ritsa-Anadkhara Reserve; E: Lagodekhi Reserve (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaearctic  
**Ecology.** Forest soils


**Oppiella (M.) neerlandica** (Oudemans, 1900)

*Syn.: Oppia neerlandica* (Oudemans, 1900) sensu Darejanashvili 1967, Darejanashvili & Gurgenidze 2004, Djaparidze 1974

**Distribution in Georgia.** W: Musera, Kolkheti National Park, Kintrishi Reserve, Darkveti, Borjomi gorge (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Wet to humid forest and meadow soils, wetlands

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**Oppiella (M.) tridentata** (Forsslund, 1942)

**Distribution in Georgia.** W: Bzyb; E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Europe

**Ecology.** Forest soils

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**Oppiella (M.) unicarinata** (Paoli, 1908)

*Syn.: Oppia unicarinata* Paoli, 1908 sensu Djaparidze 1963

**Distribution in Georgia.** W: Tetnuli Mountain, Musera, Sokhumi, Kolkheti National Park, Mtirala National Park, Mukhura, Itkhvisi, Kvabiskhevi Reserve; E: Omalo, Batsara-Babaneuri Reserve, Tedzami gorge, Algethy Reserve, Tetritskaro, Turdo, Vashlovani Reserve (Murvanidze & Mumladze 2014; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Wide range of habitats from bogs to arid woodlands

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**Oppiella (Perspicuoppia) minidentata** (Subías, 1977)

**Distribution in Georgia.** W: Ritsa Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

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**Oppiella (Rhinoppia) biceptinata** Akrami & Subías, 2007

**Distribution in Georgia.** W: Bzyb, Ochamchire, Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

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**Oppiella (R.) bulanovae** (Kulijev, 1962)

**Distribution in Georgia.** W: Bzyb, New Aphon, Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Europe

**Ecology.** Forest soils

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**Oppiella (R.) fallax** (Paoli, 1908)

*Syn.: Oppia fallax* (Paoli, 1908) sensu Darejanashvili 1967, Djaparidze 1974

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Cosmopolitan

**Ecology.** All types of habitats, abundant in urban soils

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**Oppiella (R.) nasuta** (Moritz, 1965)

**Distribution in Georgia.** W: Kolkheti National Park, Bako Mountain; E: vil. Turdo, Mariamjvari Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Europe

**Ecology.** Forest soils
**Oppiella (R.) obsoleta** (Paoli, 1908)  
*Distribution in Georgia.* W: Bzyb, Ritsa Reserve, Musera, Batumi Botanical Garden, Urta Mountain, Anaklia; E: Omalo, Sioni, Algethy Reserve, Lagodekhi Reserve (Shtanchaeva & Subías 2010)  
*Global distribution.* Holarctic  
*Ecology.* Forest soils

**Oppiella (R.) similifallax** (Subías & Minguez, 1986)  
*Distribution in Georgia.* Whole country (Murvanidze *et al.* 2011; 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)  
*Global distribution.* European  
*Ecology.* All types of habitats

**Oppiella (R.) subpectinata** (Oudemans, 1900)  
*Syn.:* Oppia subpectinata (Oudemans, 1900) *sensu* Djaparidze 1966, 1974  
*Distribution in Georgia.* Whole country (Murvanidze *et al.* 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)  
*Global distribution.* Holarctic  
*Ecology.* All types of habitats

**Oppiella (R.) hygrophila** (Mahunka, 1987)  
*Distribution in Georgia.* W: Chorokhi gorge, Aspindza, Efremovka; E: Kobi, Gudauri, Jvari pass, Tbilisi, Tetritskaro, Algethy Reserve, Mariamjvari Reserve, Lagodekhi Reserve (Shtanchaeva & Subías 2010)  
*Global distribution.* European  
*Ecology.* All types of habitats

**Oppiella (R.) vera** (Mihelčič, 1956)  
*Distribution in Georgia.* W: Bzyb, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)  
*Global distribution.* Mediterranean  
*Ecology.* Forest soils

**Oxyoppia (Dzarogneta) dubia** (Kulijev, 1966)  
*Distribution in Georgia.* W: Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)  
*Global distribution.* Caucasus  
*Ecology.* Forest soils

**Oxyoppioides decipiens** (Paoli, 1908)  
*Syn.:* Oppia decipiens (Paoli, 1908) *sensu* Karppinen *et al.* 1987, Krivolutsky & Tarba 1972  
*Distribution in Georgia.* Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)  
*Global distribution.* Palearctic  
*Ecology.* Forest soils, frequent in caves

**Ramusella clavipectinata** (Michael, 1885)  
*Syn.:* Oppia clavipectinata (Michael, 1885) *sensu* Djaparidze 1963, 1966, 1974  
*Distribution in Georgia.* Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)  
*Global distribution.* Semicosmopolitan  
*Ecology.* All types of habitats
**Ramusella insculpta** (Paoli, 1908)
Syn.: *Oppia insculpta* Paoli, 1908 *sensu* Tarba 1974, 1976

**Distribution in Georgia.** Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

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**Ramusella mihelcici** (Perez-Inigo, 1965)

**Distribution in Georgia.** W: Chinati, Imnati, Mtirala National Park; E: Askilauri (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Humid forest soils

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**Striatoppia weigmannii** Murvanidze & Behan-Pelletier, 2011

**Distribution in Georgia.** E: Tbilisi (Murvanidze & Behan-Pelletier, 2011)

**Global distribution.** Caucasus

**Ecology.** Arid woodlands and shrubs

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**Subiasella quadriraculata** (Ewans, 1952)

**Distribution in Georgia.** W: Ritsa-Anadkhara Reserve, Musera (Shtanchaeva & Subías 2010); E: Kazreti*

**Global distribution.** Palaearctic

**Ecology.** Humid forest soils

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**Family: Quadroppiidae Balogh, 1983**

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**Coronoquadroppia abchasica** (Gordeeva & Tarba, 1990)

Syn.: *Quadroppia abchasica* Gordeeva & Tarba, 1990 *sensu* Shtanchaeva & Subías 2010

**Distribution in Georgia.** W: Ritsa-Anadkhara Reserve, Musera (Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

**Remark.** In the Catalogue *Coronoquadroppia* is placed as a subgenus of *Quadroppia*. This placement is maintained in the world checklist of Subías (2004, electronically updated in 2015). Based on an SEM analysis of the rostral structure, Weigmann and Schatz (2015) proved this structure being distinct in all representatives of the genus and regard it as an important character to justify separation of the genus *Coronoquadroppia*, following Ohkubo (1995).

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**Coronoquadroppia media** (Gordeeva, 1983)


**Distribution in Georgia.** W: Ritsa Reserve, Banguriani, Mtirala National Park, Darkveti, Itkvisi, Sairme, Borjomi gorge; E: Tbilisi, Kazreti (Murvanidze et al. 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

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**Coronoquadroppia michaeli** (Mahunka, 1977)

Syn.: *Quadroppia michaeli* Mahunka, 1977 *sensu* Murvanidze et al. 2008

**Distribution in Georgia.** W: Kolkheti National Park, Kintrishi Reserve, Racha range, Tsagveri; E: Khevsha, Tbilisi, Algethy Reserve, Gombori range (Shtanchaeva & Subías 2010).

**Global distribution.** Palaearctic

**Ecology.** Forest soils
**Coronoquadroppia nana (Gordeeova, 1983)**
Syn.: *Quadroppia nana* Gordeeova, 1983 *sensu* Karppinen et al. 1987, Shtanchaeva & Subías 2010
**Distribution in Georgia.** W: Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
**Global distribution.** Caucasus
**Ecology.** Forest soils

**Coronoquadroppia nasalis (Gordeeova, 1983)**
Syn.: *Quadroppia nasalis* Gordeeova, 1983 *sensu* Karppinen et al. 1987, Shtanchaeva & Subías 2010
**Distribution in Georgia.** W: Gumista (Shtanchaeva & Subías 2010)
**Global distribution.** Eastern Mediterranean
**Ecology.** Forest soils

**Quadroppia hammerae** Mínguez, Ruiz & Subías, 1985
**Distribution in Georgia.** W: Batumi Botanical Garden, Sataplia (Shtanchaeva & Subías 2010)
**Global distribution.** Cosmopolitan
**Ecology.** Forest soils

**Quadroppia quadricarinata** (Michael, 1885)
Syn.: *Oppia quadricarinata* (Michael, 1885) *sensu* Darejanashvili 1967, Djaparidze, 1974
**Distribution in Georgia.** Whole country (Murvanidze et al. 2013, 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** All types of habitats

**Family: Thyrisomidae Grandjean, 1953**

**Banksinoma lanceolata** (Michael, 1885)
**Distribution in Georgia.** W: Musera, New Aphon, Kolkheti National Park, Kintrishi Reserve, Mtirala National Park, vil. Daba (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** Wet to humid forest soils, wetlands

**Oribella pectinata** (Michael, 1885)
**Distribution in Georgia.** W: Sairme (Mumladze et al. 2015)
**Global distribution.** Holarctic
**Ecology.** Forest soils

**Pantelozetes alpestris** (Willmann, 1929)
**Distribution in Georgia.** W: Navenakhevi, Letsurtsume, Satsurblia and Chakhati caves (Murvanidze 2014)
**Global distribution.** Holarctic
**Ecology.** Moss, cave soil and guano
**Remark.** According to Subias (2004, electronically updated in 2015), this species belongs to the genus *Montizetes* Kunst, 1971. Weigmann (2006) discussed the diagnostic characters of *Pantelozetes* Grandjean, 1953 and gave strong argumentation to regard *Montizetes* as a junior synonym of *Pantelozetes*. Weigmann (2006) registered *P. alpestris* as a moss dwelling species in European mountain regions; we have found it abundant in twilight and dark zones of several karst caves of Georgia, on the cave floor and in bat guano.

**Pantelozetes paolii** (Oudemans, 1913)
**Distribution in Georgia.** W: Tetnuldi Mountain*, Kolkheti National Park; E: Tavkvetila Mountain, Gudauri, Kazreti* (Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
Ecology. Wet to humid forest soils, alpine meadows

Superfamily: Trizetoidea Ewing, 1917

Family: Suctobelbidae Jacot, 1938

*Suctobelba alvateri* Moritz, 1970
Distribution in Georgia. W: Bzyb (Shtanchaeva & Subías 2010)
Global distribution. Europe

*Suctobelba atomaria* Moritz, 1970
Distribution in Georgia. W: Ritsa Reserve, Kintrishi Reserve, Mtrala National Park, Sairme, Borjomi gorge (Murvanidze 2014; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)
Global distribution. Europe

*Suctobelba flagelliseta* Shtanchaeva & Subías, 2009
Distribution in Georgia. W: Bzyb, Batumi Botanical Garden; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Caucasus

*Suctobelba granulata* Hammer, 1952
Distribution in Georgia. W: Anaklia, Kintrishi Reserve, Mghvimevi, Darkveti, Sairme, Kvabiskhevi Reserve; E: Tbilisi (Murvanidze *et al.* 2013; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic

*Suctobelba lapidaria* Moritz, 1970
Distribution in Georgia. W: Ritsa Reserve, Bzyb, Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic

*Suctobelba longicuspis* (Jacot, 1937)
Distribution in Georgia. W: Mtrala National Park*
Global distribution. Semicosmopolitan

*Suctobelba sorrentensis* Hammer, 1961
Distribution in Georgia. W: Ritsa Reserve (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic

*Suctobelbella acutidens* (Forsslund, 1941)
Distribution in Georgia. W: Ritsa Reserve, Kintrishi Reserve, Darkveti (Murvanidze *et al.* 2013; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats with preference of forest soils

*Suctobelbella ancorhina* Chinone, 2003
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils

*Suctobelbella baloghi* (Forsslund, 1958)
Distribution in Georgia. W: Anaklia, Kintrishi Reserve, Mtirala National Park (Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Humid forest soils

*Suctobelbella carcharodon* Moritz, 1966
Distribution in Georgia. W: Bzyb, Sataplia Reserve (Shtanchaeva & Subías 2010)
Global distribution. European
Ecology. Dry forest soils

*Suctobelbella diversisetosa arilloi* Shtanchaeva & Subías, 2009
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

*Suctobelbella duplex* (Strenzke, 1950)
Distribution in Georgia. Whole country (Murvanidze *et al.* 2011; Murvanidze & Mumladze 2014; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest and meadow soils

*Suctobelbella falcata* (Forsslund, 1941)
Distribution in Georgia. W: Chakvistskali gorge; E: Tavkvetila Mountain (Shtanchaeva & Subías 2010), Kazreti*
Global distribution. Semicosmopolitan
Ecology. Forest and swamp soils

*Suctobelbella flagellifera* Chinone, 2003
Distribution in Georgia. W: Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest and meadow soils

*Suctobelbella forsslundi* (Strenzke, 1950)
Global distribution. Palaearctic
Ecology. All types of habitats with preference of forest soils

*Suctobelbella granifera* Chinone, 2003
Distribution in Georgia. E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soils
**Suctobelbella latirostris** (Strenzke, 1950)
**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
**Global distribution.** Palaearctic
**Ecology.** Forest and swamp soils

**Suctobelbella liacariformis** Shtanchaeva & Subías, 2009
**Distribution in Georgia.** W: Sataplia Reserve (Shtanchaeva & Subías 2010)
**Global distribution.** Caucasus
**Ecology.** Forest soils

**Suctobelbella multiplumosa** (Hammer, 1979)
**Distribution in Georgia.** W: Ochamchire, Batumi Botanical Garden (Shtanchaeva & Subías 2010)
**Global distribution.** Semicosmopolitan
**Ecology.** Unclear

**Suctobelbella nana** Shtanchaeva & Subías, 2009
**Distribution in Georgia.** W: Bzyb (Shtanchaeva & Subías 2010)
**Global distribution.** Caucasus
**Ecology.** Forest soils

**Suctobelbella nasalis** (Forsslund, 1941)
**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
**Global distribution.** Palaearctic
**Ecology.** Forest soils

**Suctobelbella perforata** (Strenzke, 1950)
**Distribution in Georgia.** W: Musera (Shtanchaeva & Subías 2010)
**Global distribution.** Palaearctic
**Ecology.** Forest soils

**Suctobelbella sarekensis** Forsslund, 1941
**Distribution in Georgia.** E: Tavkvetila Mountain, Tbilisi (Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** All types of habitats

**Suctobelbella sensillinuda** Shtanchaeva & Subías, 2009
**Distribution in Georgia.** E: Khashuri (Shtanchaeva & Subías 2010)
**Global distribution.** Caucasus
**Ecology.** Forest soils

**Suctobelbella subcornigera** (Forsslund, 1941)
**Distribution in Georgia.** Whole country (Shtanchaeva & Subías 2010)
**Global distribution.** Semicosmopolitan
**Ecology.** All types of habitats

**Suctobelbella subtrigona** (Oudemans, 1916)
**Distribution in Georgia.** Whole country (Murvanidze et al. 2013, 2015; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)
**Global distribution.** Holarctic
**Ecology.** All types of habitats
Suctobelbella tuberculata Strenzke, 1950
Distribution in Georgia. W: Sairme (Mumladze et al. 2015)
Global distribution. Palaearctic
Ecology. All types of habitats

Rhynchobelba inexpectata Willmann, 1953
Distribution in Georgia. W: Kintrishi Reserve, vil. Phurtio, Darkveti (Shtanchaeva & Subías 2010)
Global distribution. Europe
Ecology. All types of habitats

Superfamily: Tectocepheoidea Grandjean, 1954

Family: Tectocepheidae Grandjean, 1954

Tectocepheus alatus Berlese, 1913
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Meadow soils

Tectocepheus minor (Berlese, 1903)
Distribution in Georgia. W: Ritsa Reserve, Ochamchire (Shtanchaeva & Subías 2010)
Global distribution. Semicosmopolitan
Ecology. All types of habitats

Tectocepheus punctulatus Djaparidze, 1985
Distribution in Georgia. Whole country (Murvanidze & Mumladze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Caucasus and eastern Asia
Ecology. All types of habitats

Tectocepheus velatus (Michael, 1880)
Distribution in Georgia. Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subias 2010)
Global distribution. Cosmopolitan
Ecology. All types of habitats

Superfamily: Limnozetoidea Thor, 1937

Family: Hydrozetidae Grandjean, 1954

Hydrozetes lacustris f. parisiensis (Michael, 1882)
Distribution in Georgia. W: Kolkheti National Park – Nabada Lake (Murvanidze et al. 2011; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Water plants, freshwater reservoirs

Superfamily: Cymbaeremaeoidea Sellnick, 1928

Family: Cymbaeremaeidae Sellnick, 1928
**Cymbaeremaeus cymba** (Nicolet, 1855)

**Distribution in Georgia.** Whole country (Murvanidze & Mumladze 2014; Murvanidze & Todria 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats, often on tree bark and canopy

**Scapheremaeus palustris Sellnick, 1924**

**Distribution in Georgia.** E: Tbilisi (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Humid moss and forest soils, frequent on tree trunks

**Superfamily: Licneremaeoidea Grandjean, 1931**

**Family: Charassobatidae Grandjean, 1958**

**Syn.: Nosybeidae sensu Shtanchaeva & Subías 2010**

**Lamellocepheus personatus Berlese, 1910**

**Syn.: Lamellocepheus ambitius Kulijev, 1966 sensu Karppinen et al. 1987**

**Distribution in Georgia.** W: Chorokhi gorge, Kintrishi Reserve; E: Algethy Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Europe

**Ecology.** Forest litter

**Family: Licneremaeidae Grandjean, 1931**

**Licneremaeus licnophorus** (Michael, 1882)

**Distribution in Georgia.** W: Ritsa Reserve, Musera; E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Moss, tree bark

**Licneremaeus novus** Karppinen & Shtanchaeva, 1987

**Distribution in Georgia.** W: Ritsa Reserve, Saken (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

**Licneremaeus prodigiosus Schuster, 1958**

**Distribution in Georgia.** W: Batumi Botanical Garden, Sataplia Reserve; E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Family: Micreremaeidae Grandjean, 1954**

**Micreremus brevipes** (Michael, 1888)

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Batumi Botanical Garden, Mtirala National Park, Kvatia village, Sataplia Reserve; E: Algethy Reserve (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Humid forest soils, tree trunks and canopy
Family: Passalozetidae Grandjean, 1954

*Passalozetes africanus* Grandjean, 1932
Distribution in Georgia. E: Tbilisi, Gardabani (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Dry meadow soil

*Passalozetes perforatus* (Berlese, 1910)
Distribution in Georgia. E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Dry meadow soil, dunes, salty shores.

*Passalozetes sabulosus* (Shtanchaeva, 1986)
Distribution in Georgia. E: Vashlovani Reserve (Barjadze & Murvanidze 2016)
Global distribution. Caucasus
Ecology. Dry soils

Family: Scutoverticidae Grandjean, 1954

*Hypovertex mirabilis* Krivolutsky, 1969
Distribution in Georgia. W: Borjomi gorge (Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest soil

*Scutovertex armazi* Murvanidze & Weigmann, 2012
Distribution in Georgia. E: Mtskheta (Murvanidze & Weigmann 2012)
Global distribution. Caucasus
Ecology. Arid forest soils

*Scutovertex minutus* (C.L. Koch, 1836)
Distribution in Georgia. E: Dmanisi, Kajiri Mountain, Kavtiskhevi (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Dry soils

*Scutovertex sculptus* Michael, 1879
Distribution in Georgia. W: Darkveti, Itkhvisi, Borjomi gorge; E: Tbilisi (Murvanidze et al. 2013; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Dry meadows and ruderal sites

*Scutovertex serratus* Sitnikova, 1974
Distribution in Georgia. W: Churia; E: Staphantsminda, Lagodekhi Reserve (Murvanidze et al. 2011; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. We have found the species in sandy dunes, in alpine meadows and forests, but rarely.

Superfamily: Phenopelopoidea Petrunkevich, 1955

Family: Phenopelopidae Petrunkevich, 1955
**Eupelops acromios** (Hermann, 1804)

**Distribution in Georgia.** Whole country (Murvanidze et al. 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

**Eupelops curtipilus** (Berlese, 1916)

**Syn.:** *Eupelops bilobus* Sellnick, 1928 *sensu* Djaparidze 1974; Karppinen *et al.* 1987; Murvanidze & Darejanashvili 2000

**Distribution in Georgia.** W: Ritsa Reserve, Zagori Pass, Chorokhi gorge, Machakhela gorge, Maltakva, Tsagheri; E: Dmanisi, Tbilisi, Martkopi (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

**Eupelops geminus** (Berlese, 1916)

**Distribution in Georgia.** W: Ritsa Reserve; E: Martkopi (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Eupelops occultus** (C.L. Koch, 1835)

**Distribution in Georgia.** W: Bzyb, Zagori Pass, Kolkheti National Park; E: Dariali gorge, Datvijvari Pass, Tbilisi, Algethy Reserve, Gombori range, David Gareji, Lagodekhi Reserve (Murvanidze *et al.* 2011; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of soil habitats from dry steppes to wet forests and high altitude alpine meadows

**Eupelops plicatus** (C.L. Koch, 1835)

**Distribution in Georgia.** W: Itkhvisi, Kvabiskhevi Reserve; E: Tavkve tila Mountain, Omalo, Sioni, Tsodoreti, Tetrtsksaro, Algethy Reserve, Gombori range (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** All types of habitats

**Eupelops tardus** (C.L. Koch, 1835)

**Distribution in Georgia.** W: Tetnuldi Mountain,* Ritsa Reserve, Musera, Kala, Ateni gorge; E: Khashuri, Dmanisi, Sioni, Algethy Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils and alpine meadows

**Eupelops torulosus** (C.L. Koch, 1839)

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2013; Murvanidze 2014; Murvanidze & Mumladze, 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

**Peloptulus gibbus** Mihelcic, 1957

**Distribution in Georgia.** W: Bzyb, Avadkhara (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Peloptulus phaenotus** (C.L. Koch, 1844)

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011, 2013; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic

Ecology. All types of habitats

Superfamily: Achipterioidea Thor, 1929

Family: Achipteriidae Thor, 1929

*Achipteria coleoptrata* (Linnaeus, 1746)

*Distribution in Georgia.* W: Ritsa Reserve, Ochamchire, Kolkheti National Park, Kintrishi Reserve, Machakhela gorge, Kutaisi, Mtshava Mountain, Itkhvisi; E: Batsara-Babaneuri Reserve, Algethy Reserve (Murvanidze et al. 2011; Shtanchaeva & Subías 2010)

*Global distribution.* Holarctic

*Ecology.* Forest soils

*Achipteria italica* (Oudemans, 1913)

*Distribution in Georgia.* W: Ritsa Reserve, Sokhumi; E: Lagodekhi Reserve (Shtanchaeva & Subías 2010)

*Global distribution.* Europe

*Ecology.* Forest soils

*Achipteria longisetosa* Weigmann & Murvanidze, 2003

*Distribution in Georgia.* W: Kolkheti National Park, Mtirala National Park, Tskaltubo (Murvanidze 2014; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

*Global distribution.* Caucasus

*Ecology.* Humid to wet forest soils, frequent in caves

*Achipteria nitens* (Nicolet, 1855)

*Distribution in Georgia.* Whole country (Murvanidze & Mumladze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

*Global distribution.* Holarctic

*Ecology.* Forest soils

*Achipteria preoccupata* Subías, 2004

*Distribution in Georgia.* W: Abkhazia; E: Lagodekhi (Shtanchaeva & Subías 2010)

*Global distribution.* Mediterranean

*Ecology.* Forest soils

*Achipteria sellnicki* Hammen, 1952

*Distribution in Georgia.* E: Manglisi (Shtanchaeva & Subías 2010)

*Global distribution.* European

*Ecology.* Forest soils

*Parachipteria fanzagoi* (Jacot, 1929)


*Distribution in Georgia.* Whole country (Murvanidze et al. 2013, 2015 Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

*Global distribution.* Holarctic

*Ecology.* Forest moss, litter and soils

*Remark.* Shtanchaeva and Subías (2010) report this species as *Campachipteria fanzagoi*, however, as explained in the remark for *P. georgica*, representatives of *Campachipteria* are monodactylous (Aoki 1995) and *P. fanzagoi* has tridactylous legs.
Parachipteria georgica Murvanidze & Weigmann, 2003

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

**Remark.** In the world checklist, Subías (2004, electronically updated in 2006) placed *P. georgica* in *Campachipteria* (Aoki, 1995). We do not agree with this placement since (1) *P. georgica* has tridactylous legs *vs* monodactylous in *Campachipteria* (Aoki 1995) and (2) genu IV of *P. georgica* is not bent *vs* bent in *Campachipteria* (Aoki 1995). In the updated checklist of 2015, Subías listed *P. georgica* as a junior synonym of *C. patavina* (Oudemans, 1914) without presenting arguments. We do not agree with his statement for the following reasons: 1) all area porosae of *P. georgica* are distinct and relatively large, round-oval (Fig. 3A), while those of *C. patavina* are small (see description in the keys of Ghilarov & Krivolutsky, 1975; Fig. 3B); 2) sensilli of *C. georgica* are long, with rounded head (Fig. 3A) and sensilli of *P. patavina* are short, broad and distally cut (Fig. 3B, 4A, 4B) (Dubinina *et al.* 1966; Ghilarov & Krivolutsky 1975; Oudemans 1914); 3) in the description of Dubinina *et al.* (1966) tutoria of *P. patavina* are indicated as triangular, short and with very short, cut tips (Figs. 5A), whereas *P. georgica* has long, free tutorial tips (Fig. 5B) that nearly reach each other (Murvanidze & Weigmann 2003). Based on the above mentioned differences, we consider *P. georgica* as a valid species.

Parachipteria punctata (Nicolet, 1855)

**Syn.:** Notaspis punctatus (Nicolet, 1855) *sensu* Djaparidze 1963, 1966

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

Family: Tegoribatidae Grandjean, 1954

Lepidozetes singularis Berlese, 1910

**Distribution in Georgia.** W: Ritsa Reserve, Saken; E: Saguramo (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils, frequent on trees; mosses

**Remark.** In the Catalogue presence of this species in “Upper Kartli, Delisi” is indicated based on the checklist of Djaparidze (1974) where no exact geographic data are provided. Therefore, we did not include this location in the checklist.

Tectoribates ornatus (Schuster, 1958)

**Distribution in Georgia.** E: Tbilisi*, Norio*, Gardabani (Murvanidze & Todria 2015)

**Global distribution.** Palaearctic

**Ecology.** Dry meadow and forest soils

Tegoribates latirostris (C.L. Koch, 1844)

**Distribution in Georgia.** W: Zagori Pass*, Kintrishi Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

Scutozetes lanceolatus Hammer, 1952

**Distribution in Georgia.** W: Zagori Pass*, Kala village*, Ipari village*, Ughviri Pass*, Borjomi gorge, Algethy Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils
Figure 3. Prachipteria A – georgica Murvanidze & Weigmann, 2003, dorsal view (redrawing after Murvanidze & Weigmann, 2003); B – patavina (Oudemans, 1914), dorsal view (redrawing after Ghilarov & Krivolutsky, 1975, not to scale).

Figure 4. Parachipteria patavina, senillus, A – redrawing after Dubinina et al. 1966; B – redrawing after Ghilarov & Krivolutsky, 1975 (not to scale).

Figure 5. Tutorium of A – P. patavina, (redrawing after Dubinina et al., 1966, not to scale); B – P. georgica (redrawing after Murvanidze & Weigmann, 2003).
**Umbellozetes fuscus** Krivolutsky, 1969  
**Distribution in Georgia.** W. Tetnuldi Mountain* E: Stepantsminda, Shenako, Omalo, Sioni, Didgori, Algethy Reserve, Gombori range, Lagodekhi Reserve (Shtanchaeva & Subías 2010)  
**Global distribution.** Palearctic  
**Ecology.** Mountain forests and meadows.

**Superfamily: Oribatelloidea Jacot, 1925**

**Family: Oribatellidae Jacot, 1925**

*Ferolocella cribraria* (Kulijev, 1977)  
**Syn.:** *Oribatella simnikovae* Djaparidze, 1989  
**Distribution in Georgia.** W: Banguriani, Becho, Mtirala National Park (Djaparidze 1989; Murvanidze et al. 2015)  
**Global distribution.** Caucasus  
**Ecology.** Forest soils

*Oribatella angulosa* Csiszar, 1962  
**Distribution in Georgia.** W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)  
**Global distribution.** Europe  
**Ecology.** Forest soils

*Oribatella berlesei* (Michael, 1898)  
**Distribution in Georgia.** whole country (Murvanidze et al. 2013; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Palearctic  
**Ecology.** Forest soils

*Oribatella bulanovae* Kulijev, 1967  
**Distribution in Georgia.** W: Musera, Batumi Botanical Garden (Shtanchaeva & Subías 2010)  
**Global distribution.** Europe  
**Ecology.** Forest soils

*Oribatella calcarata* (C.L. Koch, 1835)  
**Distribution in Georgia.** (Shtanchaeva & Subías 2010)  
**Global distribution.** Holarctic  
**Ecology.** Forest soils and canopy

*Oribatella colchica* Krivolutsky, 1974  
**Distribution in Georgia.** W: Banguriani, Kintrishi Reserve, Mtirala National Park, Tskaltubo, Itkhvisi, Sairme, Kvabiskhevi Reserve; E: Tbilisi (Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Mediterranean  
**Ecology.** Wet to humid forest soils

*Oribatella foliata* Krivolutsky, 1974  
**Distribution in Georgia.** W: Ritsa Reserve, Sakeni, Bzyb (Shtanchaeva & Subías 2010)  
**Global distribution.** Palearctic  
**Ecology.** Forest soils

*Oribatella heterodontata* Karppinen & Shtanchaeva, 1987  
**Distribution in Georgia.** W: Sakeni (Shtanchaeva & Subías 2010)  
**Global distribution.** Caucasus
Ecology. Forest soils

**Oribatella nigra** Kulijev, 1967

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Beshumi, Kolkheti National Park, Kintrishi Reserve, Mtirala National Park, Sataplia Reserve, Itkhvisi, Sairme, Tsagheri; E: Kojori, Norio, Lagodekhhi Reserve (Mumladze et al. 2015; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

Ecology. Humid forest soils

**Oribatella ornata** (Coggi, 1900)

**Distribution in Georgia.** W: Mtirala National Park (Murvanidze et al. 2015)

**Global distribution.** Palaearctic

Ecology. Forest soils

**Oribatella superbula** (Berlese, 1904)

**Syn.:** Oribatella meridionalis Berlese, 1908 *sensu* Djaparidze 1974; Karppinen et al. 1987; Murvanidze & Darejanashvili 2000

**Distribution in Georgia.** E: Tbilisi, Algethy Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

Ecology. Forest soils

**Remark.** In the Catalogue (Shtanchaeva & Subías 2010) the presence of *O. meridionalis* Berlese, 1908 is registered for Tbilisi. This species is known as a junior synonym of *O. superbula* (Weigmann 2001).

**Oribatella tenuis** Csiszar, 1961

**Distribution in Georgia.** W: Mtirala National Park, Sairme (Mumladze et al. 2015; Murvanidze et al. 2015)

**Global distribution.** Mediterranean

Ecology. Forest soils

Superfamily: Oripodoidea Jacot, 1925

Family: Haplozetidae Grandjean, 1936

**Haplozetes elegans** Kunst, 1977

**Distribution in Georgia.** W: Sataplia Reserve, Kvabiskhevi Reserve; E: Gergeti, Tbilisi, Gardabani (Murvanidze & Mumladze 2014; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

Ecology. Broadleaved forest soils

**Haplozetes longisacculus** Murvanidze & Weigmann, 2012

**Distribution in Georgia.** W: Rgani, Mghvimevi, Darkveti (Murvanidze & Weigmann 2012; Murvanidze et al. 2013)

**Global distribution.** Caucasus

Ecology. Dump soils on manganese quarries

**Haplozetes tenuisatus** (Berlese, 1916)

**Distribution in Georgia.** E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

Peloribates europaeus Willmann, 1935
Distribution in Georgia. W: Musera, Sokhumi; E: Batsara-Babaneuri Reserve, Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils and dry meadows

Peloribates longipilosus Csiszar, 1962
Distribution in Georgia. W: Kolkheti National Park, Kintrishi Reserve, Rgani, Darkveti; E: Tbilisi, Kavtiskhevi (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest and meadow soils

Protoribates capucinus (Berlese, 1908)
Distribution in Georgia. Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Cosmopolitan
Ecology. All types of habitats with the preference of humid forest soils

Protoribates dentatus (Berlese, 1883)
Distribution in Georgia. W: Churia; E: Algethy Reserve (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Humid forest soils and bogs

Protoribates lophotrichus (Berlese, 1904)
Distribution in Georgia. W: Kolkheti National Park (Shtanchaeva & Subías 2010), Likhi range*
Global distribution. Semicosmopolitan
Ecology. Humid and flooded meadows

Pseudoprotoribates parabadensis (Kulijev, 1968)
Distribution in Georgia. W: Kintrishi Reserve; E: river Potskhovi gorge (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Humid forest soils

Family: Oribatulidae Thor, 1929

Lucoppia burrowsi (Michael, 1890)
Syn.: Lucoppia orientalis Djaparidze, 1985
Distribution in Georgia. Frequent in Eastern part of the country (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Xerophilic, arid forests and shrubs

Lucoppia nicora Djaparidze, 1986
Distribution in Georgia. W: Nikortsminda cave; E: Tbilisi (Shtanchaeva & Subías 2010)
Global distribution. Caucasus
Ecology. Forest soils

Oribatula (Oribatula) tibialis (Nicolet, 1855)
Syn.: Oribatula pallida (Banks, 1906) sensu Djaparidze 1974; Karppinen et al. 1987; Murvanidze & Darejanashvili 2000
Distribution in Georgia. whole country (Murvanidze et al. 2013, 2015; Murvanidze 2014; Murvanidze &
Global distribution. Cosmopolitan

Ecology. Forest soils

**Oribatula (O.) beccus** Djaparidze, 1990

**Distribution in Georgia.** different landscape zones (see remark)

**Global distribution.** Caucasus

**Ecology.** Different soil types

**Remark.** *O. beccus* from Georgia was described by Djaparidze (1990a) without indication of exact finding sites. Djaparidze describes the species as numerous in different landscape zones: dry lowland subtropics, montane forests with moderate humid climate, high montane forests and alpine meadows. The presence of the holotype in the collections of the Institute of Zoology is also indicated, however, we could find neither holotype, nor paratypes.

In the Catalogue this species is placed as a synonym of *Oribatula (O.) tibialis alifera* Subías, 2000. *O. (O.) tibialis alifera* was created by Subías (2000) as *nomina* *nuova* with for the earlier described species *O. tibialis alata* Iordansky, 1991 as a synonym to *O. (O.) tibialis alifera*. Within this publication, no arguments are provided for such synonymy. It is only mentioned that the species described by Iordansky (1991) was found on Iberian Peninsula too (Subías 2000). *O. (O.) beccus* and *O. (O.) tibialis alata* are similar in having sparsely barbed lamellar setae and clearly protruding pteromorphae, however, there as a notable difference in body size between them: 580–600 µm for *O. (O.) beccus* and 408 µm for *O. (O.) tibialis alata*. Considering this difference as important, we regard *O. (O.) beccus* as a valid species and reject its synonymy with *Oribatula (O.) tibialis alifera*.

**Oribatula (Zygoribatula) cognata** (Oudemans, 1902)


**Distribution in Georgia.** whole country (Murvanidze *et al.* 2011a, 2013; Murvanidze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

**Oribatula (Z.) exarata** Berlese, 1916

**Distribution in Georgia.** E: Tbilisi*, Kajiri Mountain (Murvanidze & Kvavadze 2006)

**Global distribution.** Palaearctic

**Ecology.** Xerophilic shrubs and semideserts.

**Oribatula (Z.) exilis** (Nicolet, 1855)


**Distribution in Georgia.** whole country (Murvanidze *et al.* 2011a, 2013; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** All types of habitats

**Oribatula (Z.) frisiae** (Oudemans, 1900)


**Distribution in Georgia.** W: Ritsa Reserve, Musera, Kolkheti National Park, Mtirala National Park; E: Tbilisi, Algethy Reserve, Gardabani, Kavtiskhevi (Murvanidze 2014; Murvanidze & Todria 2015; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest and urban soils
**Oribatula (Z.) glabra** (Michael, 1890)

*Distribution in Georgia.* W: Ritsa Reserve; E: Stepantsminda (Shtanchaeva & Subías 2010)

*Global distribution.* Palaearctic

*Ecology.* Dry meadow and ruderal soils.

**Oribatula (Z.) lanceolata** Grobler, Bayram & Çobanoglu, 2004

*Distribution in Georgia.* W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)

*Global distribution.* Mediterranean

*Ecology.* Forest soils

**Oribatula (Z.) longisensilla** (Djaparidze, 1985)


*Distribution in Georgia.* W: Tetnuldi mountain* E: Tbilisi, Lagodekhi Reserve (Shtanchaeva & Subías 2010)

*Global distribution.* Caucasus

*Ecology.* Arid forest soils

*Remark.* In the Catalogue the presence of *O. (Z.) hispanica* Subías & Arillo, 1998 is indicated for several locations of Georgia with registering *O. (Z) longisensilla* (Djaparidze, 1985) as a synonym. In the 2015 update of world checklist (Subías 2004) *O. (Z) longisensilla* is regarded as “species inquirinda” and synonym of *O. (Z) lanceolata* (Grobler et al. 2004). Grobler et al. (2004) do not discuss *O. (Z) longisensilla* at all, whereas we realize that the characters of *O. (Z) lanceolata* match exactly with the description of Djaparidze. The holotype of *O. (Z) longisensilla* Djaparidze, 1985 is indicated to be stored in the Museum of the Institute of Zoology of St. Petersburg, but it was not available for the time of investigation. However, we have found *O. (Z) longisensilla* as numerous in several locations of Tbilisi (Murvanidze et al. 2008) and other parts of Georgia. We propose *O. (Z) lanceolata* as a junior synonym of *O. (Z) longisensilla* syn. n.

**Oribatula (Z.) microporosa** Bulanova-Zakhvatkina, 1967


*Distribution in Georgia.* W: Ritsa Reserve, Musera, Tsemi (Shtanchaeva & Subías 2010)

*Global distribution.* Palaearctic

*Ecology.* Forest soils

**Oribatula (Z.) propinqua** (Oudemans, 1900)

*Syn.:* Zygoribatula propinqua (Oudemans, 1900) sensu Djaparidze 1974, Karppinen et al. 1987, Murvanidze & Darejanashvili 2000

*Distribution in Georgia.* E: Stepantsminda (Shtanchaeva & Subías 2010)

*Global distribution.* Palaearctic

*Ecology.* Forest soils

**Oribatula (Z.) spherisensilla** (Djaparidze, 1985)


*Distribution in Georgia.* W: Sokhumi (Shtanchaeva & Subías 2010)

*Global distribution.* Caucasus

*Ecology.* Forest soils

**Oribatula (Z.) thallasophila** Grandjean, 1935

*Distribution in Georgia.* E: Martkopi, Tskneti (Shtanchaeva & Subías 2010)

*Global distribution.* European

*Ecology.* Forest soils
**Oribatula. (Z.) connexa** Berlese 1904  
*Distribution in Georgia.* E: Tbilisi*, Kaspi*  
*Global distribution.* Subtropical  
*Ecology.* Urban and ruderal soils

**Oribatula (Z.) undulata** (Berlese, 1916)  
*Distribution in Georgia.* W: Poti (Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Wet forest soils

**Siculobata (Paraleius) leontonycha** (Berlese, 1910)  
*Distribution in Georgia.* E: Datvijvari Pass (Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Alpine meadows

**Phauloppia lucorum** (C.L. Koch, 1841)  
*Distribution in Georgia.* W: Ritsa Reserve, Musera, Ushba, Mtirala National Park, Tskaltubo, Itkvisi, Navenakhevi and Nikortsminda caves, Kvabiskhevi Reserve; E: Martkopi, Algethy Reserve, Lagodekhi Reserve (Murvanidze 2014; Murvanidze & Arabuli 2015; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)  
*Global distribution.* Holarctic  
*Ecology.* Frequent in moss, forest soils

**Phauloppia pilosa** (C.L. Koch, 1841)  
*Distribution in Georgia.* W: Musera, Sakajia cave (Murvanidze 2014; Shtanchaeva & Subías 2010)  
*Global distribution.* Holarctic  
*Ecology.* Forest soils

**Phauloppia rauschenensis** (Sellnick, 1908)  
*Syn.:* Eporibatula rauschenensis (Sellnick, 1908) *sensu* Karppinen *et al.* 1987, Murvanidze & Darejanashvili 2000, Tarba 1976  
*Distribution in Georgia.* W: Ritsa Reserve, Musera, Kvabiskhevi Reserve (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Forest soils, frequent in canopy

**Simkinia montana** Krivolutsky & Grishina, 1970  
*Distribution in Georgia.* E: Sioni (Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Mountain forest soils

**Simkinia schachthachtinskoi** (Kulijev, 1961)  
*Distribution in Georgia.* E: Kavtiskhevi (Murvanidze & Todria 2015)  
*Global distribution.* Palaearctic  
*Ecology.* Dry meadows and post-industrial dumps.

**Simkinia tianschanica** Krivolutsky, 1971  
*Distribution in Georgia.* W: Zagori pass; E: Tbilisi, Gardabani, Kavtiskhevi (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)  
*Global distribution.* Palaearctic  
*Ecology.* Mountain forest soils
Family: Parakalummidae Grandjean, 1936

**Neoribates aurantiacus** (Oudemans, 1914)
Distribution in Georgia. W: Musera, Kintrishi Reserve; E: Lagodekhi Reserve (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

**Neoribates rouhali** (Berlese, 1910)
Distribution in Georgia. W: Ritsa Reserve (Shtanchaeva & Subías 2010)
Global distribution. Palaeartic
Ecology. Forest soils

Family: Scheloribatidae Grandjean, 1933

**Dometorina plantivaga** (Berlese, 1895)
Distribution in Georgia. W: Musera, Kintrishi Reserve, Mtirala National Park; E: Lagodekhi Reserve (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Cosmopolitan
Ecology. Humid forest soils

**Hemileius initialis** (Berlese, 1908)
Distribution in Georgia. W: Ritsa Reserve; E: Martkopi (Shtanchaeva & Subías 2010)
Global distribution. Semicosmopolitan
Ecology. Forest soils

**Liebstadia longior** (Berlese, 1908)
Distribution in Georgia. W: Rtsa Reserve, Musera, New Aphon, Kolkheti National Park, Motsameta; E: Borjomi gorge, Tavkvetila Mountain, Tbilisi, David Gareji, Kavtiskhevi (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats with preference of coniferous forest soils

**Liebstadia pannonica** (Willmann, 1951)
Distribution in Georgia. W: Risa Reserve, Kolkheti National Park, Kintrishi Reserve, Mtirala National Park, Darkveti; E: Akhaltsikhe; Kobi, Shatili, Tbilisi, Tetritskaro, Algethy Reserve, Mariamjvari Reserve, David Gareji, Kajiri Mountain, Lagodekhi Reserve (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats

**Liebstadia similis** (Michael, 1888)
Distribution in Georgia. W: Kolkheti National Park, Mtirala National Park, Kvabiskhevi Reserve, Darkveti; E: Dariiali gorge, Stepantsminda, Jvari Pass, Sioni, Tavkvetila Mountain, Tbilisi, Martkopi, Algethy Reserve, Mariamjvari Reserve, Gardabani, Kavtiskhevi (Murvanidze & Todria 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. All types of habitats

**Scheloribates barbatulus** Mihelčič, 1956
Distribution in Georgia. W: Batumi Botanical Garden (Shtanchaeva & Subías 2010)
Global distribution. Palaeartic
Ecology. Forest soils
**Scheloribates distinctus** Mihelčič, 1964  
**Distribution in Georgia.** W: Ughviri pass; E: Kajiri Mountain (Shtanchaeva & Subías 2010)  
**Global distribution.** Palaearctic  
**Ecology.** Alpine and dry meadow soils

**Scheloribates fimbriatus** Thor, 1930  
**Distribution in Georgia.** E: Tbilisi (Shtanchaeva & Subías 2010)  
**Global distribution.** Cosmopolitan  
**Ecology.** Dry soils

**Scheloribates laevigatus** (C.L. Koch, 1835)  
**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011a, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Semicosmopolitan  
**Ecology.** All types of habitats

**Scheloribates latipes** (C.L. Koch, 1844)  
**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2011a, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Holarctic  
**Ecology.** All types of habitats

**Scheloribates longus** (Kulijev, 1968)  
**Distribution in Georgia.** W: Ritsa Reserve, Churia; E: Tsagbveri, Tsemi, Tbilisi, Kavtiskhevi (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Palaearctic  
**Ecology.** Dry and humid forest soils, wetlands

**Scheloribates pallidulus** (C.L. Koch, 1841)  
**Distribution in Georgia.** W: Ritsa Reserve, Musera, Mtirala National Park; E: Akhaltsikhe, Dmanisi, Algethy Reserve (Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)  
**Global distribution.** Cosmopolitan  
**Ecology.** All types of habitats

**Scheloribates quintus** (Wunderle, Beck & Woas, 1990)  
**Distribution in Georgia.** W: Kolkheti National Park; E: Algethy Reserve (Shtanchaeva & Subías 2010)  
**Global distribution.** Europe  
**Ecology.** Forest soils

**Scheloribates tubiaiensis** Sellnick, 1959  
**Distribution in Georgia.** E: Dmanisi (Shtanchaeva & Subías 2010)  
**Global distribution.** Polynesia, Palaearctic  
**Ecology.** Dry forest soils

**Family: Zetomotrichidae Grandjean, 1934**

**Ghilarovus kvavadzei** Murvanidze 2014  
**Distribution in Georgia.** W: Tsutskhvati and Tsakhi caves (Murvanidze 2014)  
**Global distribution.** Caucasus  
**Ecology.** Cave entrance, forest soil
Superfamily: Ceratozetoidea Jacot, 1925

Family: Ceratozetidae Jacot, 1925

\textit{Ceratozetes colchica} Murvanidze & Weigmann, 2003  
\textbf{Distribution in Georgia.} W: Kintrishi Reserve, Batumi Botanical Garden, vil. Pushurkauli, Idliani (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)  
\textbf{Global distribution.} Caucasus  
\textbf{Ecology.} Humid forest soils

\textit{Ceratozetes conjunctus} Mihelčič, 1956  
\textbf{Distribution in Georgia.} W: Tetnuldi Mountain* E: Khashuri, Tbilisi (Shtanchaeva & Subías 2010)  
\textbf{Global distribution.} Mediterranean  
\textbf{Ecology.} Alpine meadow and forest soils

\textit{Ceratozetes djaparidzae} Shaldybina, 1979  
\textbf{Distribution in Georgia.} W: Ninotsminda (Shtanchaeva & Subías 2010)  
\textbf{Global distribution.} Caucasus  
\textbf{Ecology.} Dry meadow soils

\textit{Ceratozetes gracilis} (Michael, 1884)  
\textbf{Syn.:} \textit{Ceratozetes fusiger} Mihelčič, 1956 \textit{sensu} Djaparidze 1974; Karppinen \textit{et al.} 1987; Murvanidze & Darejanashvili 2000  
\textbf{Distribution in Georgia.} Whole country (Murvanidze \textit{et al.} 2013, 2015; Murvanidze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)  
\textbf{Global distribution.} Cosmopolitan  
\textbf{Ecology.} Forest soils, moss, litter

\textit{Ceratozetes laticuspidatus} Menke, 1964  
\textbf{Distribution in Georgia.} W: Pushurkauli; E: Khashuri (Shtanchaeva & Subías 2010), Algethy Reserve*  
\textbf{Global distribution.} Europe  
\textbf{Ecology.} Forest soils

\textit{Ceratozetes longocuspidatus} Kulijev, 1962  
\textbf{Distribution in Georgia.} E: Batsara-Babaneuri Reserve, Tbilisi, Algethy Reserve, Gombori range (Shtanchaeva & Subías 2010)  
\textbf{Global distribution.} Palaearctic  
\textbf{Ecology.} Forest soils

\textit{Ceratozetes mediocris} Berlese, 1908  
\textbf{Distribution in Georgia.} W: Musera, river Khobistskali gorge, river Chorokhi gorge, river Machakhela gorge; E: Kvakiskhevi Reserve, Tbilisi, Lagodekhi Reserve (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)  
\textbf{Global distribution.} Semicosmopolitan  
\textbf{Ecology.} Humid forest soils

\textit{Ceratozetes minimus} (Sellnick, 1928)  
\textbf{Distribution in Georgia.} W: Avadkhara (Shtanchaeva & Subías 2010) E: Dariali gorge*  
\textbf{Global distribution.} Palaearctic  
\textbf{Ecology.} Alpine meadow soils

\textit{Ceratozetes minutissimus} Willmann, 1951  
\textbf{Distribution in Georgia.} W: Darkveti; E: Borjomi gorge, Tbilisi, Kavtiskhevi, Dedoplistskaro* (Murvanidze \textit{et al.} 2013; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest and meadow soils

*Ceratozetes peritus* Grandjean, 1951
**Distribution in Georgia.** W: Batumi Botanical Garden, Sataplia Reserve E: Khashuri (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils and humid meadows

*Ceratozetes sellnicki* Rajski, 1958
**Distribution in Georgia.** W: Ritsa Reserve, Musera; E: Kvabiskhevi Reserve, Dmanisi, Omalo, Sioni, Tbilisi, Martkopi, Algethy Reserve, Mariamjvari Reserve, Lagodekhi Reserve (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)
Global distribution. Palaearctic
Ecology. Forest and alpine meadow soils

*Ceratozetoides cisalpinus* (Berlese, 1908)
**Distribution in Georgia.** E: Kvabiskhevi Reserve (Murvanidze & Mumladze 2014)
Global distribution. Holarctic
Ecology. Forest soils

*Diapterobates humeralis* (Hermann, 1804)
**Distribution in Georgia.** W: Ritsa Reserve, Borjomi E: Martkopi (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Tree bark, forest and dry meadow soils

*Edwardzetes edwardsii* (Nicolet, 1855)
**Distribution in Georgia.** W: Anaklia, Bakuriani, Borjomi; E: Manglisi (Shtanchaeva & Subías 2010)
Global distribution. Boreoalpine
Ecology. Broadleaved and coniferous forest soils

*Fuscozetes fuscipes* (C.L. Koch, 1844)
**Distribution in Georgia.** W: Tsagveri; E: Tavkvetila Mountain (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Wet to humid forest and meadow soils

*Fuscozetes setosus* (C.L. Koch, 1839)
**Distribution in Georgia.** E: Datvijvari Pass (Shtanchaeva & Subías 2010)
Global distribution. Holarctic
Ecology. Forest soils

*Melanozetes mollicomus* (C.L. Koch, 1840)
**Distribution in Georgia.** W: Musera, Kintrishi Reserve; E: Tsemi, Tavkvetila Mountain, Dmanisi (Shtanchaeva & Subías 2010)
Global distribution. Boreoalpine
Ecology. All types of habitats

*Oromurcia bicuspidata* Thor, 1930
**Syn. Oromucia sudetica** Willmann, 1939 *sensu* Karppinen *et al.* 1987; Shtanchaeva & Subías 2010
**Distribution in Georgia.** E: Kaspi*
Global distribution. Palaearctic
Ecology. Mountainous meadows
Remark. Catalogue provides information on presence of *O. bicuspidata* in Ritsa Reserve after Tarba (1976) and Karppinen *et al.* (1987). We have examined paper of Tarba and did not found information on the presence of *O. bicuspidata* in the region. So, we discard this location and provide recent founding point in Kaspi.

*Sphaerozetes orbicularis* (C.L. Koch, 1835)

**Distribution in Georgia.** W: Ritsa Reserve, Musera (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Sphaerozetes piriformis* (Nicolet, 1855)

**Distribution in Georgia.** Whole country (Murvanidze *et al.* 2013; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils, moss, litter

*Sphaerozetes tricuspidatus* Willmann, 1923

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Phurtio, Mtirala National Park; E: Tavkvetila Mountain, Omalo, Lagodekhi Reserve (Murvanidze 2014; Murvanidze *et al.* 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils, moss, litter

*Trichoribates caucasicus* Shaldybina, 1971

**Distribution in Georgia.** W: Kolkheti National Park, Mtirala National Park, Sairme gorge; E: Tavkvetila Mountain, Batsara-Babanauri Reserve, Tbilisi, Algethy Reserve, Lagodekhi Reserve (Mumladze *et al.*, 2015; Murvanidze *et al.* 2011; Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

*Trichoribates incisellus* (Kramer, 1897)

**Distribution in Georgia.** W: Gagra, Ritsa Reserve, Sokhumi, Churia, Chinati; E: Tskhratskaro, Tsalka, Shatili, Datvijvari Pass, Tetritskaro (Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** All types of habitats

*Trichoribates naltschicki* (Shaldybina, 1971)

**Distribution in Georgia.** Whole country (Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

*Trichoribates novus* Sellnick, 1928

**Distribution in Georgia.** Whole country (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils, moss and litter, found in canopy and on tree trunks

*Trichoribates trimaculatus* (C.L. Koch, 1835)

**Distribution in Georgia.** W: Kolkheti National Park, Kutaisi, Kvabiskhevi Reserve; E: Shatili, Datvijvari Pass, Sioni, Martkopi, Algethy Reserve, Gombori range, Kajiri Mountain, Lagodekhi Reserve (Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** All types of habitats
Family: Chamobatidae Grandjean, 1954

**Chamobates borealis** (Tragardh, 1902)

**Distribution in Georgia.** E: Borjomi (Darejanashvili 1976)

**Global distribution.** Holarctic

**Ecology.** Acidic forest soils of different humidity

**Chamobates caucasicus** Shaldybina, 1969

**Distribution in Georgia.** W: Ritsa Reserve, Kolkheti National Park, whole Ajara region; E: Dmanisi, Batsara Reserve, Algethy Reserve, Mariamjvari Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

**Chamobates cuspidatiformis** (Trägårdh, 1904)

**Distribution in Georgia.** W: Ritsa Reserve, Anaklia, Tskaltubo, Rgani (Shtanchaeva & Subías 2010).

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Chamobates cuspidatus** (Michael, 1884)

**Distribution in Georgia.** W: Tetnuldi Mountain,* Ritsa Reserve, Sokhumi, New Aphon, Mtirala National Park, Kvabiskhevi Reserve; E: Tavkvetila Mountain, Tbilisi, Algethy Reserve (Murvanidze & Mumladze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** All types of habitats

**Chamobates dactyloscopicus** Bernini & Mahunka, 1982

**Distribution in Georgia.** W: Sataplia Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** European

**Ecology.** Forest soils

**Chamobates dentutorii** Shaldybina, 1969

**Distribution in Georgia.** W: Ritsa Reserve (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Chamobates interpositus** Pschorn-Walcher, 1953

**Distribution in Georgia.** W: Kintrishi Reserve, Mtirala National Park, Tskaltubo, Tsutskhvati and Samele caves; Darkveti, Likhi range; E: Gombori range (Murvanidze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils and canopy

**Chamobates kieviensis** Shaldybina, 1980

**Distribution in Georgia.** W: Kolkheti National Park, Kintrishi Reserve, Mtirala National Park, Darkveti; E: Tbilisi (Murvanidze et al. 2013, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Forest soils

**Chamobates sergienkoae** Shaldybina, 1980

**Distribution in Georgia.** E: Khashuri (Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

**Chamobates spinosus** Sellnick, 1928

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Kolkheti National Park, Mtirala National Park, Leskhulukhe
cave; E: Dmanisi, Sioni, Martkopi (Murvanidze 2014; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Forest soils

*Chamobates subglobulus* (Oudemans, 1900)

**Distribution in Georgia.** W: Ritsa Reserve, Racha range, Sairme (Mumladze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Humid forest soils

*Chamobates voigtsi* (Oudemans, 1902)

**Distribution in Georgia.** Whole country (Murvanidze et al. 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats

*Globozetes longipilus* Sellnick, 1928

**Distribution in Georgia.** W: Musera (Shtanchaeva & Subías 2010)

**Global distribution.** European

**Ecology.** Forest soils

*Globosetes microtus* Shaldybina, 1969

**Distribution in Georgia.** W: Musera, New Aphon, Mtirala National Park, Kolkheti National Park; E: Kvabiskhevi Reserve (Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Caucasus

**Ecology.** Forest soils

**Family: Euzetidae Grandjean, 1954**

*Euzetes globulus* (Nicolet, 1855)

**Distribution in Georgia.** W: Musera, Kolkheti Reserve, Kintrishi Reserve, Darkveti, Sairme; E: Kvabiskhevi Reserve, Algethy Reserve, Lagodekhi Reserve (Murvanidze et al. 2011, 2013; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** Humid forest soils

**Family: Punctoribatidae Thor, 1937**

*Feiderzetes latus* (Schweizer, 1956)

**Distribution in Georgia.** W: Mtirala National Park (Murvanidze & Arabuli 2015; Murvanidze et al. 2015)

**Global distribution.** European

**Ecology.** Decaying wood

*Minunthozetes pseudofusiger* (Schweizer, 1922)

**Distribution in Georgia.** Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palaearctic

**Ecology.** All types of habitats
Minunthozetes semirufus (C.L. Koch, 1840)

**Distribution in Georgia.** W: Ritsa Reserve, Musera, Mtiarala National Park, Kvabiskhevi Reserve (Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Palearctic

**Ecology.** Humid to fresh forest soils

Minunthozetes tarmani Feider, Vasiliu & Calugar, 1971

**Distribution in Georgia.** W: Bzyb, Batumi Botanical Garden (Shtanchaeva & Subías 2010)

**Global distribution.** Palearctic

**Ecology.** Forest soils

Mycobates parmeliae (Michael, 1884)

**Distribution in Georgia.** W: Ritsa Reserve, Kintrishi Reserve, Kvabiskhevi Reserve; E: Tavkvetila Mountain, Dmanisi, Lagodekhi Reserve (Arabuli G et al., 2008; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Holarctic

**Ecology.** Forest soils

Punctoribates gilarovi Shaldybina, 1969

**Distribution in Georgia.** W: Ritsa Reserve, Sakeni (Shtanchaeva & Subías 2010)

**Global distribution.** Palearctic

**Ecology.** Forest soils

Punctoribates meridianus Shaldybina, 1973

**Distribution in Georgia.** E: Stepantsminda (Shtanchaeva & Subías 2010)

**Global distribution.** Mediterranean

**Ecology.** Alpine meadow

Punctoribates mundus Shaldybina, 1973

**Distribution in Georgia.** W: Bzyb (Shtanchaeva & Subías 2010)

**Global distribution.** Palearctic

**Ecology.** Forest soils

Punctoribates palustris (Banks, 1895)

**Syn.:** Punctoribates manzanoensis Hammer, 1958 sensu Murvanidze & Kvavadze 2009, Murvanidze et al. 2011a; 
Punctoribates (Minguezetes) insignis Berlese, 1910 sensu Shtanchaeva & Subías 2010

**Distribution in Georgia.** W: Kolkheti National Park (Murvanidze et al. 2011)

**Global distribution.** Holarctic

**Ecology.** Bogs and flooded forests

**Remark.** Presence of M. hexagonus Berlese, 1908 is indicated in the Catalogue after Tarba (1976). After examination of this paper we have not found this species in the list and did not include it in the checklist. Moreover, Punctoribates hexagonus is frequently confused with P. palustris because of anterior notogastral tectum; however it is smaller in size and also tarsus II of P. palustris bears one dorsal tooth, whereas Hammer (1958) described and illustrated two dorsal teeth on tarsus II of P. manzanoensis (Behan-Pelletier & Eamer 2008). Genus Minguezetes was proposed by Subías et al. (1990), but Weigmann (2006) and Behan-Pelletier & Eamer (2008) do not agree with this statement, because of insufficient differential characters. We also provide genus Punctoribates as a valid for P. palustris.

Punctoribates punctum (C.L. Koch, 1839)

**Distribution in Georgia.** Whole country (Murvanidze et al. 2011, 2013, 2015; Murvanidze 2014; Murvanidze & Mumladze 2014; Murvanidze & Arabuli 2015; Murvanidze & Todria 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Cosmopolitan
Ecology. All types of habitats. Frequent in disturbed and urban soils. It is reported as early succession species (Murvanidze et al. 2013).

**Punctoribates sellnicky Willmann, 1928**

**Distribution in Georgia.** W: Ritsa Reserve, Kolkheti National Park (Shtanchaeva & Subías 2010)

**Global distribution.** Palaeartic

**Ecology.** Wet to humid forest and swamp soils

**Punctoribates sphaericus Shaldybina, 1987**

**Distribution in Georgia.** W: Bzyb (Shtanchaeva & Subías 2010)

**Global distribution.** Palaeartic

**Ecology.** Forest soils

**Family: Zetomimidae Shaldybina, 1966**

**Zetominus furcatus** (Pearce & Warburton, 1906)

**Distribution in Georgia.** W: Kolkheti National Park (Murvanidze et al. 2013)

**Global distribution.** Palaeartic

**Ecology.** Bogs and flooded forests

**Superfamily: Galumnoidea Jacot, 1925**

**Family: Galumnidae Jacot, 1925**

**Acrogalumna longipluma** (Berlese, 1904)

**Syn.: Allogalumna longipluma** (Berlese, 1904) sensu Darejanashvili 1966, Djaparidze 1974

**Distribution in Georgia.** W: Anaklia, Darkveti (Murvanidze et al. 2013, 2015; Shtanchaeva & Subías 2010); Kolkheti National Park, Kintrishi Reserve, Mtirala National Park; Kutaisi, Mapheli cave, Sairme; E: Tsaghveri, Dariali gorge, Algethy Reserve, Lagodekhi Reserve, Tavkvetila Mountain (Mumladze et al., 2015; Murvanidze 2014; Murvanidze & Arabuli 2015; Murvanidze et al. 2015; Shtanchaeva & Subías 2010)

**Global distribution.** Semicosmopolitan

**Ecology.** Forest soils

**Galumna alata** (Hermann, 1804)

**Distribution in Georgia.** W: Darkveti, Dzudzuana cave; E: Kvabiskhevi Reserve, Batsara Reserve, Tbilisi, Algethy Reserve, Mariamjvari Reserve, Lagodekhi Reserve (Murvanidze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Semicosmopolitan

**Ecology.** All types of habitats

**Galumna berlesei** Oudemans, 1919

**Distribution in Georgia.** W: Tskaltubo, Kutaisi (Shtanchaeva & Subías 2010); E: Algethy Reserve*

**Global distribution.** European

**Ecology.** Forest soils

**Galumna flagellata** Willmann, 1925

**Distribution in Georgia.** W: Kolkheti National Park, Phurtio, Phushurkauli, Tskaltubo, Racha range, Mghvimevi, Sairme; E: Dmanisi, Gergeti, Tbilisi, Dedoplitskaro* (Murvanidze et al. 2013; Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

**Global distribution.** Palaeartic

**Ecology.** Forest and meadow soils

**Remark.** G. flagellata is described to have prolonged Aa areae porosae laying parallel to the pteromorphs
(Shaldybina 1975; Weigmann 2006). Individuals found in steppe soil in Dedoplistskar have rounded triangular \( Aa \) with tip directed to the centre and being of the same size as other areae porosae. This character with combination of round \( A_1 \), oval \( A_2 \) and \( A_3 \), presence of median pore and setiform sensillus led us to think that we have encountered \textit{Galumna dimorpha} Krivololutskaja, 1954. However, when checking the male individuals we have not found merged \( A_2 \) and \( A_3 \) area porosae. All characters in male and female individuals were similar. So we identified these individuals as \( G. flagellata \) and think that the shape of \( Aa \) should be considered as variable from oblong to rounded triangular.

\textit{Galumna lanceata} (Oudemans, 1900)

\textbf{Distribution in Georgia.} W: Ritsa Reserve, Kolkheti National Park, Kintrishi Reserve; E: Tbilisi, Algethy Reserve (Shtanchaeva & Subias 2010)

\textbf{Global distribution.} Palaearctic

\textbf{Ecology.} Humid forest soils

\textit{Galumna obvia} (Berlese, 1915)

\textbf{Distribution in Georgia.} W: Ochamchire, Kolkheti National Park, Tskaltubo; E: Dmanisi, Sioni, Tbilisi, Algethy Reserve, Gombori range (Murvanidze \textit{et al.} 2011; Shtanchaeva & Subias 2010)

\textbf{Global distribution.} Palaearctic

\textbf{Ecology.} Humid forest soils

\textit{Galumna tarsipennata} Oudemans, 1913

\textbf{Distribution in Georgia.} W: Kvania vil., Mtirala National Park, Darkveti; E: Tbilisi, Algethy Reserve, Gombori range, Gardabani, Kavtiskhevi (Murvanidze \textit{et al.} 2013, 2015; Murvanidze & Todria 2015; Shtanchaeva & Subias 2010)

\textbf{Global distribution.} Palaearctic

\textbf{Ecology.} Forest and meadow soils

\textit{Pergalumna minor} (Willmann, 1928)

\textbf{Distribution in Georgia.} W: Kolkheti National Park, Kintrishi Reserve, Mtirala National Park (Murvanidze \textit{et al.} 2011, 2015; Murvanidze & Arabuli 2015; Shtanchaeva & Subias 2010)

\textbf{Global distribution.} Holarctic

\textbf{Ecology.} Forest and meadow soils

\textbf{Remark.} As one location point Tbilisi (“Mziuri” Park) is given in the catalog after Murvanidze (2000, 2002) and Murvanidze & Darejanashvili (2000). After reexamination of the specimens we found the individuals from Tbilisi belonging to \textit{P. nervosa}.

\textit{Pergalumna myrmophila} (Berlese, 1914)

\textbf{Distribution in Georgia.} W: Ritsa Reserve, Bzyb, Batumi Botanical Garden, Sataplia Reserve (Shtanchaeva & Subias 2010)

\textbf{Global distribution.} Holarctic

\textbf{Ecology.} Forest soils

\textbf{Remark.} As one location point Tbilisi (“Mziuri” Park) is given in the catalog after Murvanidze (2000, 2002) and Murvanidze & Darejanashvili (2000). After reexamination of the specimens we found the individuals from Tbilisi belonging to \textit{P. nervosa}.

\textit{Pergalumna nervosa} (Berlese, 1914)

\textbf{Syn.:} \textit{Galumna nervosus} (Berlese, 1914) \textit{sensu} Djaparidze 1963

\textbf{Distribution in Georgia.} W: Kolkheti National Park, Rgani, Mghvimevi, Darkveti, Itkvisi, Sairme; E: Kvabiskhevi Reserve, Dmanisi, Tbilisi, Algethy Reserve, Lagodeki Reserve, Gardabani, Kavtiskhevi (Murvanidze \textit{et al.} 2013; Murvanidze & Mumladze 2014; Murvanidze & Todria 2015; Shtanchaeva & Subias 2010)

\textbf{Global distribution.} Holarctic

\textbf{Ecology.} Forest and meadow soils; frequent on dumps and recultivated sites (Murvanidze \textit{et al.} 2013)
Pilogalumna crassiclava (Berlese, 1914)

Distribution in Georgia. W: Ritsa Reserve, Kolkheti National Park, Kintrishi Reserve; E: Dmanisi, Tbilisi, Tetritskaro, David Gareji, Lagodekhi Reserve (Shtanchaeva & Subías 2010)

Global distribution. Palaearctic

Ecology. All types of habitats

Pilogalumna tenuiclava (Berlese, 1914)

Syn.: Allogalumna tenuiclava (Berlese, 1914) sensu Djaparidze 1974, Tarba 1976

Distribution in Georgia. W: Ritsa Reserve, Musera, Sokhumi, Mtirala National Park, Tkaltubo, Kidobana cave, Sairme; E: Kvabiskhevi Reserve, Shatili, Shenako, Omali, Algethy Reserve, Mariamjvari Reserve (Murvanidze & Mumladze 2014; Shtanchaeva & Subías 2010)

Global distribution. Holarctic

Ecology. Swamps, forest soils and alpine meadows

Trichogalumna nipponica (Aoki, 1966)

Distribution in Georgia. W: Sakeni (Shtanchaeva & Subías 2010)

Global distribution. Palaearctic

Ecology. Forest soils

Conclusions on oribatid species diversity in Georgia

In spite of the Georgian territory being well-covered with sampling, many species are reported only from a single location (112 species) or from several locations with mutual distance of more than 100 km (more than 50 species). Therefore the within country distribution ranges for many species can not be accurately constructed. Georgia is a small country with very rich topographic diversity, which is reflected in species diversity and distributions. Some regions like Colchis lowland are intensively investigated (>50 localities, see Appendix and Fig. 1), however it is comparatively poor by topographic diversity. In contrast, south-eastern part of Great Caucasus as well as Javakheti plateau and eastern Georgian dry belt have high landscape diversity and much larger area than Colchis lowland, but are rather weakly investigated (ca. 50 localities). This is also evident from the species number, as almost 350 species are reported from this area. The sampling effort is not (and could not be) evenly distributed across landscapes, which could explain the deficiencies in the knowledge of species distribution ranges in Georgia.

The sample-based rarefaction (based on the data provided in appendix) and chao2 estimate (Magurran 2004) indicate that at most 170 additional species are expected to find (at complete saturation point) if sampling will increase to 1000 locations (Fig. 6) (Hsieh et al. 2013). This estimation as well as the Figure 6 clearly show that the great deal of oribatid species diversity is already documented for Georgia (unlike any other invertebrate groups), however we suppose that the oribatid fauna of Georgia still needs further extensive investigation to provide complete picture of species diversity and distribution. This is evident from the pace of new discoveries. In particular, the cumulative curves for the new species descriptions as well as for new records in Georgia are not flattened over time (Fig. 2), indicating that further research would significantly enrich knowledge of the oribatid mite diversity of Georgia and the Caucasus.

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