

CHECKLIST OF THE ORIBATID MITES OF THE NETHERLANDS (ACARI:  
ORIBATIDA)

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More than fifty years ago Van der Hammen published the last checklist of oribatid mites (or moss mites) for the Netherlands. Since then the species number has almost doubled to 318 species, of which 100 are presented here for the first time. Brief data on occurrence and nomenclature are provided for each species. A short list of fossil species known from the Netherlands is presented separately.

**INTRODUCTION**

Oribatid mites (fig. 1) form an extremely diverse group of soil micro-arthropods with about 11.000 known species world-wide (Walter & Proctor 1999). They belong to the Chelicerata (spiders and alike) and are placed in the suborder Oribatida s.l. of the order Sarcoptiformes. Coddington et al. (2004) place the Oribatida s.s. in the order Sarcoptiformes parallel to the Astigmata. In this list the Astigmata are not included, but more primitive oribatids are, therefore we call it Oribatida s.l. in the traditional opinion. In their natural habitats oribatids may reach a density of ten to a

hundred thousand individuals per square meter. Up to sixty species may be found in one soil sample with a diameter of ten centimeters. Due to their small size (oribatids are usually less than 1 mm long) and high diversity identification to the species level is difficult. Moreover, the taxonomic status of many species has not always been clear.

Oribatid mites form an important part of detritus food webs. Most species feed on fungi and litter and have a large influence on the decomposition of dead organic matter. A number of species climb into the vegetation and trees and some

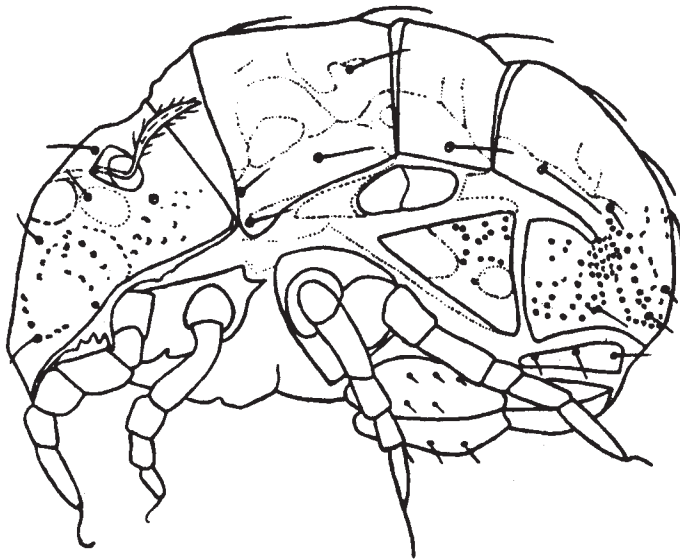


Figure 1. *Synchthonius crenulatus*.  
Source: Van der Hammen (1952).  
Figuur 1. *Synchthonius crenulatus*.  
Bron: Van der Hammen (1952).

of them even have an arboricol way of life. Many predators are feeding on oribatid mites, such as gamasid mites, centipedes, Coleoptera such as Ptiliidae, Scydmaenidae and Pselaphidae and even salamanders (Krivolutsky 1995). Knowledge of the composition of oribatid mite communities is very relevant because of the significant role of this group in the soil ecosystem.

#### RESEARCH IN THE NETHERLANDS

The history of investigations on the oribatid mite fauna in the Netherlands dates back to the 19th century. The first checklist with about 60 species was published by Oudemans (1896). A revised edition of the list was published by Oudemans (1902). Van der Hammen (1952) further explored the oribatid fauna. He described several new species in the family Malaconothridae. His interest in oribatids enlarged the revised list to 162 species. More than half a century has passed since then. From the 1950s on much research was devoted to the ecology of oribatid mites, mainly by soil ecologists. This activity has resulted in many new records for the Dutch fauna which to date have not yet been published.

#### INTRODUCTION TO THE SPECIES LIST

The authors have revised the checklist published by Van der Hammen (1952). This has resulted in a total of 318 species, of which 100 are presented for the first time. Species were included only if at least one voucher specimen was available from the Netherlands. The few exceptions to this rule, when the specimen was lost, are discussed in the notes. The voucher specimens are located in the collections of the authors, of the Natural History Museums of Leiden and Amsterdam, of the research institute Alterra in Wageningen, or in the collection of the Vrije Universiteit in Amsterdam. The majority of literature and museum records were compiled by the first author. The resulting checklist was complemented by the other authors with 17 new species for the Netherlands collected during research on oribatid mite diversity in

forests, conducted during spring and summer 2000 (Zaitsev & Berg 2001). Workers of Naturalis and the European Invertebrate Survey - the Netherlands put much effort in digitalizing the data of RMNH, which contributed significantly to the total number of data for this checklist. Species not mentioned before in the literature are indicated with an asterisk (\*).

The following species were not included into the list:

*Nothrus borussicus* Sellnick, 1928 (family Nothridae) was reported by Krivolutsky (pers. comm.) to exist in the Noord-Hollands Duinreservaat in North-Holland near IJmuiden and in 'het Amsterdamse Bos' in Amsterdam. Unfortunately a slide with the specimen of this species was not provided. Also older records from literature exist, but none of the specimens have been kept for examination. As confusion may have occurred with *N. anauniensis*, we remove the species from the checklist for the moment. An as yet undescribed species of the genus *Suctobelbella* (family Suctobelbidae) was found by D.A. Krivolutsky in 'het Amsterdamse Bos'. A so far unknown species of the genus *Brachychthonius* (family Brachychthoniidae) was collected by the second author near Bergen, Noord-Hollands Duinreservaat. This species resembles a species known only from Japan, *B. gracilis* (Chinone, 1974). The taxonomic status of the species is currently under investigation. An undescribed species of an unknown genus was found by the first author in old brooks (two records: Beekbergen en Nieuwkoop). The specimens probably belong to a species near the Parakalumnidae.

The systematics and nomenclature used in the checklist predominantly follows the work of Weigmann (2006); older reviews have been carefully checked (Balogh & Balogh 1992, Subias 2004). Our list was not checked extensively yet against the recent list of Fauna Europaea (Niedbala 2004).

We do not give any subdivisions below the

Oribatida to group the families. Current developments in phylogeny may change these groupings again on a short notice.

In the checklist species are followed by short notes on distribution data; habitat, locality, date and literature and collection references are given for the rare species only. Some important synonyms and misidentifications are provided. For the more common species reference has been made to the main collections in which specimens are present. The main source is a large database (and reference collection) at Alterra Green World Research Wageningen (ALT), furthermore the private collection of the first author (HS), collections at Naturalis Leiden (RMNH), Free University Amsterdam (VUA) and sources from literature.

#### SPECIES RECORDED AS SUBFOSSIL

Next to the list presented here, several species have been recorded from the Netherlands as subfossils. As the exoskeleton of oribatid mites is conserved very well in many soils (especially peat and clay soils), they can serve as indicators for ancient biotopes. Schelvis (1992) reconstructed the ancient biotopes of many archaeological excavations. The age of these subfossils goes as far as 40,000 years BP. It is obvious that in that period (during the age of the mammoths) the habitats in the Netherlands were quite distinct from the recent ones. Some of the oribatid mites, however, may persist in rare refugia till present. The following 11 species were recorded in the Netherlands as subfossil only by Schelvis (1992): *Epidamaeus bituberculatus* (Kulczynski, 1902), *E. tatricus* (Kulczynski, 1902), *Tectocepheus concurrens* Knülle, 1953, *T. translamellatus* Knülle 1954, *Ameronothrus lineatus* (Thörell, 1871), *Zygoribatula propinquus* (Oudemans, 1902), *Sphaerozetes orbicularis* (C.L. Koch, 1836), *Punctoribates hexagonus* Berlese, 1908, *Eupelops claviger* (Berlese, 1916), *Anachipteria dubia* Weigmann, 2001 and *Tegoribates latirostris* (C.L. Koch, 1844).

#### LIST OF SPECIES OF ORIBATID MITES OF THE NETHERLANDS

##### Class Arachnida

##### Subclass Acari

##### Order Sarcoptiformes

##### Suborder Oribatida s.l. (excl. Astigmata)

#### PALAEACARIDAE

##### Palaeacarus Trägårdh, 1932

##### 1 *hystrinicus* Trägårdh, 1932

*Palaeacarus gallicus* Grandjean, 1932

Five specimens sampled, probably quite common in low densities in old and undisturbed forests and hedgerows. Several records by Zaitsev & Berg (2001); Ugchelen, 3.v.1994, HS.

#### APHELACARIDAE

##### Aphelacarus Grandjean, 1932

##### 2\* *acarinus* (Berlese, 1910)

One record, several specimens, Academic hospital Leiden in culture with Psocoptera, 28.I.1981, RMNH.

#### BRACHYCHTHONIIDAE

##### Brachychthonius Berlese, 1910

##### 3 *berlesei* Willmann, 1928

*Brachychthonius brevis*; Berlese 1910 [misidentification]

Several records Zaitsev & Berg (2001); Goeree, Springergors, 11.III.1974, RMNH; in *Marchantia* at a steep slope of a stream Döttekro, Winterswijk, 9.IV.1993, HS.

##### 4\* *bimaculatus* Willmann, 1936

*Brachychthonius helveticus* Schweizer, 1956

In soil in an old grassland Bennekom (Bovenbuurt), 2.X.1989, HS.

##### 5\* *impresus* Moritz, 1976

*Brachychthonius berlesei*; Niedbala 1974 [misidentification]

In *Mnium undulatum*, Leudal, Haalen, 8.X.1989, HS.

- 6\* **pius Moritz, 1976**  
*Brachychthonius berlesei*; Perez-Inigo 1968  
 [misidentification]  
 Beech forest east of Nijmegen, 24.IX.1989, HS.
- Eobrachychthonius Jacot, 1936**
- 7 **mooseri (Van der Hammen, 1950)**  
 Only one specimen from the type locality:  
 Maastricht, St. Pietersberg, 6.V.1949, Van  
 der Hammen (1952).
- 8 **oudemansi Van der Hammen, 1952**  
*Brachychthonius laetepictus*; Willmann 1931  
 [misidentification]  
*Eobrachychthonius argentinensis* Hammer,  
 1958  
 One specimen from the type locality: Breda,  
 Burgst, 1.V.1912, Van der Hammen (1952);  
 Arnhem, 9.IX.1965, RMNH.
- Liochthonius Van der Hammen, 1959**
- 9 **alpestris (Forsslund, 1958)**  
 Zeereep, Zoutelande, 8.III.2000, Zaitsev &  
 Berg (2001).
- 10 **brevis (Michael, 1888)**  
*Brachychthonius perpusillus* Berlese, 1910  
 Several records by Zaitsev & Berg (2001); oak  
 forest east of Nijmegen, 3.IX.1989, HS.
- 11 **evansi (Forsslund, 1958)**  
*Brachychthonius horridus*; Evans 1952 [misi-  
 dentification]  
*Liochthonius forsslundi levis* Chinone, 1974  
 Zwillbroek, Eibergen, 16.III.1999, Zaitsev &  
 Berg (2001); soil and litter in an old forest  
 stand at Loenen, 3.V.1994, HS.
- 12\* **furcillatus (Willmann, 1942)**  
*Brachychthonius ensifer* Strenzke, 1951  
 In moss in a larch stand, Nijmegen, 15.X.1989,  
 HS.
- 13\* **horridus (Sellnick, 1928)**  
 Soil in an old hedgerow, Harskamp, 25.IX.1997,  
 HS.
- 14 **hystrinicus (Forsslund, 1942)**  
*Brachychthonius ocellatus* Hammer, 1952  
 Several records by Zaitsev & Berg (2001).
- 15\* **lapponicus (Trägårdh, 1910)**  
*Hypochthonius brevis* var. *lapponicus*  
 Trägårdh, 1910  
 Several specimen in *Ammophila* litter, Meyen-  
 del (ZH), 21.I.1974, RMNH.
- 16\* **peduncularis (Strenzke, 1951)**  
 In floating sods in peat swamp, Westbroekse  
 Zodden, Westbroek, 29.VI.1992, HS.
- 17 **perfusorius Moritz, 1976**  
*Brachychthonius furcillatus*; Strenzke 1951  
 [misidentification]  
 Spanderswoud, Hilversum, 9.VII.2000, Zaitsev  
 & Berg (2001); pine litter at Ysselstein (Lim-  
 burg), 28.III.1993, HS.
- 18 **sellnicki (Thor, 1930)**  
*Brachychthonius scalaris* Forsslund, 1942  
*Brachychthonius nodosus* Willmann, 1952  
 Several records by Zaitsev & Berg (2001); for-  
 est litter (among *Ficaria verna*), Bekkendelle,  
 Winterswijk, 9.IV.1993, HS.
- 19\* **simplex (Forsslund, 1942)**  
 Imbos (GE), 12.XI.1985, ALT (specimens not  
 stored).
- 20 **strenzkei (Forsslund, 1942)**  
*Brachychthonius sellnicki*; Strenzke 1951  
 [misidentification]  
 Several records by Zaitsev & Berg (2001);  
 in *Rhytidadelphus squarosus* on sand dunes,  
 Horsmeertjes, Texel, 6.II.1993, HS.
- 21 **tuxeni (Forsslund, 1957)**  
*Brachychthonius hystrinicus* var. *tuxeni*  
 Forsslund, 1957  
 Ulvenhoutse Bos, Nieuw Ginniken, 24.V.2000,  
 Zaitsev & Berg (2001); litter in old forest  
 stand, Ugchelen, 3.V.1994, HS.
- Neobrachychthonius Moritz, 1976**
- 22\* **magnus Moritz, 1976**  
*Neobrachychthonius marginatus magnus*  
 Moritz, 1976  
 Deelerwoud (GE), 20.XI.1984, ALT (specimens  
 not stored).
- 23\* **marginatus (Forsslund, 1942)**  
 Deelerwoud (GE), 14.I.1988, ALT (specimens  
 not stored).

**Poecilochthonius Balogh, 1943**

- 24 **italicus (Berlese, 1910)**  
Brachychthonius brevis (Michael, 1888) var.  
italicus Berlese, 1910  
Specimens sampled from *Quercus-Carpinetum*  
litter, Gronsveld, 14.IX.1950, Van der Hammen  
(1952).
- 25\* **spiciger (Berlese, 1910)**  
Brachychthonius brevis (Michael, 1888) var.  
spiciger Berlese, 1910  
Brachychthonius rapaporti Balogh &  
Mahunka, 1968  
One record from Zwillbroek, Eibergen  
9.IV.1993, HS.

**Sellnickochthonius Krivolutsky, 1964**

- 26 **cricoides (Weis-Fogh, 1948)**  
Several records by Zaitsev & Berg (2001).
- 27\* **formosus (Cooreman, 1947)**  
In *Rhytidiadelphus squarosus* on sand dunes,  
Horsmeertjes, Texel, 6.II.1993, HS.
- 28\* **honestus (Moritz, 1976)**  
Brachychthonius zelawaiensis; Evans 1952  
[misidentification]  
Brachychthonius zelawaiensis; Bulanova-  
Zachvatkina 1957 [misidentification]  
Beech forest east of Nijmegen, 24.IX.1989, HS.
- 29 **hungaricus (Balogh, 1943)**  
Sellnickochthonius rostratus Krivolutsky,  
1975  
One record Amsterdamse Bos, Amsterdam,  
15.VIII.2000, Zaitsev & Berg (2001); in  
*Rhytidiadelphus squarosus* on sand dunes,  
Horsmeertjes, Texel, 6.II.1993, HS.
- 30 **immaculatus (Forsslund, 1942)**  
Brachychthonius semiornatus Evans, 1952  
Brachychthonius arcticus Hammer, 1952  
Brachychthonius striatus Willmann, 1956  
Brachychthonius gygeri Schweizer, 1963  
Brachychthonius obscurus Krivolutsky, 1966  
Heemskerk, 12.IV.2000, Zaitsev & Berg (2001);  
Goeree, Springergors, 6.VI.1975, RMNH (sub.  
*B. semiornatus*).
- 31\* **subcricoides (Balogh & Mahunka, 1979)**  
Hoge Veluwe, Heiweg, 20.XI.1984, ALT (speci-  
mens not stored).

- 32 **suecicus (Forsslund, 1942)**  
Brachychochthonius jugatus var. suecica  
Forsslund, 1942  
Brachychthonius jugatus Niedbala, 1972  
Few localities, probably more widespread,  
Hoenderloo, Hoge Veluwe, 24.X.1942, Van der  
Hammen (1952).
- 33 **zelawaiensis (Sellnick, 1928)**  
Several records by Zaitsev & Berg (2001);  
old forest stand Ugchelense Bos, Ugchelen,  
3.V.1994, HS.

**Synchthonius Van der Hammen, 1952**

- 34 **crenulatus (Jacot, 1938)**  
Synchthonius boschmai Van der Hammen,  
1952  
Specimens from litter of a cultivated *Larix*  
with *Alnus* forest, Eext, 11.V.1943, Van der  
Hammen (1952); Molenven, Saasveld,  
26.IV.2000, Zaitsev & Berg (2001).

**Verachthonius Moritz, 1976**

- 35\* **congruus Moritz, 1976**  
Arnhemse Heide, 14.I.1988, ALT (specimens not  
stored).
- 36\* **laticeps (Strenzke, 1951)**  
Deelerwoud (GE) and Imbos in litter bags,  
14.IV.1986, ALT (specimens not stored).

**COSMOCHTHONIIDAE**

**Cosmochthonius Berlese, 1910**

- 37\* **lanatus (Michael, 1885)**  
Cosmochthonius domesticus Grandjean, 1947  
In *Thuja* litter, Nieuw Dennenlust,  
Beekbergen, 17.VII.1989, HS.

**HAPLOCHTHONIIDAE**

**Haplochthonius Willmann, 1930**

- 38 **simplex Willmann, 1930**  
One old record from the Netherlands but with  
some uncertainty concerning its precise locali-  
ty, sampled by Oudemans (Van der Hammen  
1952) and one more recent: Texel, polder Het  
Noorden, 14.VI.1972, RMNH.

#### ATOPOCHTHONIIDAE

##### **Atopochthonius Grandjean, 1948**

##### **39\* artiodactylus Grandjean, 1948**

Litter and soil in an old hedgerow, Nunspeet, 25.IX.1997, HS.

#### HYPOCHTHONIIDAE

##### **Hypochthonius C.L. Koch, 1836**

##### **40 luteus Oudemans, 1917**

Valkenburg (type locality), Oudemans in Van der Hammen (1952); Stavenisse (Tholen) and Vlissingen, 3.XI.1974, RMNH; among litter with *Anemone nemorosa*, St. Pietersberg, Maastricht, 21.IV.1994, HS.

##### **41 rufulus C.L. Koch, 1836**

Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); Hackfort, Vorden, 1959, Minderman (1981) and RMNH; slope of a ditch in *Mnium hornum*, Beekbergerwoud, Beekbergen, 14.VII.1991, HS.

#### ENIOCHTHONIIDAE

##### **Eniochthonius Grandjean, 1933**

##### **42 minutissimus (Berlese, 1904)**

*Hypochthonius pallidulus* Berlese, 1896 (misidentified type specimen)

*Eniochthonius grandjeani* Van der Hammen, 1952

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; slope of a ditch in *Mnium hornum*, Beekbergerwoud, Beekbergen, 14.VII.1991, HS.

#### EULOHMANNIIDAE

##### **Eulohmannia Berlese, 1910**

##### **43 ribagai Berlese, 1910**

*Arthronothrus biunguiculatus* Trägårdh, 1910  
Hackfort, Vorden, 1959, Minderman (1981); Arnhem, 18.VI.1965; Winterswijk, Willink Weuste, 1.VII.1975; Vijlenerbos (LI), 29.V.1974; Plasmolen, 31.X.1968; Epen, 6.V.1972;

Westerbroek (Gr), 20.VI.1984, Heerenveen, 18.VI.1979; Schoorl, 21.VI.1983, RMNH; records from old forest stands and hedgerows, Epe, Vemde, 22.IX.1997, HS.

#### EPILOHMANNIIDAE

##### **Epilohmannia Berlese, 1910**

##### **44 cylindrica (Berlese, 1904)**

*Lesseria szanisloi* Oudemans, 1917

*Epilohmannia verrucosa* Jacot, 1934

Two records: Nolledijk, Vlissingen, 20.II.1973; Koudekerke inlagen, Westerschouwen, 3.XI.1974 (Polderman & de Vries 1978) sub *E. szanisloi*.

#### PHTHIRACARIDAE

##### **Archiphthiracarus Balogh & Mahunka, 1979**

##### **45\* anonymus (Grandjean, 1934)**

Record from a birchbrook, Zwilbroek, Eibergen, 9.IV.1993, HS.

##### **Atropacarus Ewing, 1917**

##### **46 striculus (C.L. Koch, 1836)**

*Steganacarus diaphanus* Jacot, 1930

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; sampled from pine litter at Ysselstein (LI), 28.III.1993, HS.

##### **Hoplophthiracarus Jacot, 1933**

##### **47 illinoisensis (Ewing, 1909)**

*Hoplophthiracarus pavidus*; Van der Hammen 1963 [misidentification]

*Hoplophthiracarus vanderhammeni* Niedbala, 1991

*Phthiracarus pavidus* (Berlese, 1913)

Manteling van Walcheren, Domburg, 8.III.2000, Zaitsev & Berg (2001); Wijster, 9.VIII.1962, in Sphagnum near mere, RMNH.

##### **Phthiracarus Perty, 1841**

##### **48 crenophilus Willmann, 1951**

Spanderswoud, Hilversum, 9.VII.2000; Agelerbroek, Ootmarsum, 26.IV.2000, Zaitsev & Berg (2001).

- 49 **crinitus** (C.L. Koch, 1841)  
Uiterwaarden Waardenburg, 28.VIII.2000,  
Zaitsev & Berg (2001).
- 50 **ferrugineus** (C.L. Koch, 1841)  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; litter  
between *Equisetum hyemale*, Bekkendelle,  
Winterswijk, 9.IV.1993, HS.
- 51 **globosus** (C.L. Koch, 1841)  
Several records by Van der Hammen (1952)  
and RMNH; litter and moss near the stream  
Leudal, Haelen, 8.X.1989, HS.
- 52 **laevigatus** (C.L. Koch, 1841)  
*Phthiracarus nitens* (Nicolet, 1855)  
*Phthiracarus paratrichus* Feider & Suciú,  
1975  
*Phthiracarus piger* (Scopoli, 1763)  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; birchbrook  
in peatland, Nieuwkoop, 2.VII.1992; litter of  
coniferes and broadleaved trees, Schaarsbergen,  
Arnhem, 19.VII.1989, HS.
- 53 **longulus** (C.L. Koch, 1841)  
*Phthiracarus borealis*; Willmann 1931 [misi-  
dentification]  
*Phthiracarus flexisetosus* Parry, 1979  
*Phthiracarus hortobagyensis* Mahunka, 1982  
*Phthiracarus mundus* Niedbala, 1983  
*Phthiracarus setosellus* Jacot, 1928  
*Phthiracarus tardus* Forsslund, 1956  
Moosbeek, Tubbergen, 26.IV.2000, Zaitsev &  
Berg (2001).
- 54 **testudineus** (C.L. Koch, 1841)  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; in moss  
on *Prunus avium*, Savelsbos, Gronsveld,  
21.IV.1994, HS.

#### **Steganacarus Ewing, 1917**

- 55 **anomalus** (Berlese, 1883)  
*Steganacarus karamani* Tarman, 1962  
Several records by Zaitsev & Berg (2001);  
among litter with *Anemone nemorosa*,  
St. Pietersberg, Maastricht, 21.IV.1994, HS.

- 56\* **applicatus** (Sellnick, 1920)  
*Phthiracarus berlesei* Oudemans, 1915  
(preocc.)  
Mantinge (DR) 28.IX.1971, Bunderbos (LI)  
28.V.1974, RMNH; litter of coniferes and  
broadleaved trees, Schaarsbergen, Arnhem,  
19.VII.1989, HS.
- 57 **magnus** (Nicolet, 1855)  
Hackfort, Vorden, 1959, Minderman (1981);  
several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; in *Mnium*  
*undulatum* at a steep slope of a stream,  
Döttekro, Winterswijk, 9.IV.1993, HS.
- 58\* **michaeli Bernini & Avanzati, 1987**  
In soil of an old hedgerow near Vemde, Epe,  
22.IX.1997, HS.
- 59 **spinosus** (Sellnick, 1920)  
*Steganacarus punctulatus* Sergenko, 1985  
Several records by Van der Hammen (1952);  
Norg (DR), 10.X.1972, RMNH; in *Mnium*  
*undulatum* at a steep slope of a stream,  
Döttekro, Winterswijk, 9.IV.1993, HS.

#### **EUPHTHRACARIDAE**

#### **Euphthiracarus Ewing, 1917**

- 60\* **cribarius** (Berlese, 1904)  
Several records in RMNH from the provinces  
Limburg and Gelderland; in moss in an oak  
forest, Beetsterzwaag, 11.X.1989; decaying  
wood, Heerenveen, 18.VI.1979; from moss on  
fallen tree, Westerbroek (GR), 20.VI.1984, HS.
- 61 **monodactylus** (Willmann, 1919)  
*Euphthiracarus mixtus* Mahunka, 1979  
Bekkendelle, Winterswijk, 16.III.1999, Zaitsev  
& Berg (2001); Arnhem, 28.IV.1965; Lankhorst  
(Nijmegen), 20.V.1975; Mariahoop (Echt),  
29.VI.1978; Haelen, 28.VI.1978; Broek in  
Waterland, 5.VI.1984; Oldematen, Zwartewater  
(OV), 10-II.VI.1985, RMNH; forest litter, Bekken-  
delle, Winterswijk, 9.IV.1993, HS; all in litter.

## Microtritia Märkel, 1964

### 62 minima (Berlese, 1904)

*Tritia* (*Pseudotritia*) *minuta* Willmann, 1919

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; litter in old forest stand, Ugchelen, 3.v.1994, HS.

## Rhysotritia Märkel & Meyer, 1959

### 63 ardua (C.L. Koch, 1841)

*Tritia* *lentula* Berlese, 1887

*Phthiracarus* *canestrinii* Michael, 1898

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; birchbrook, Zwilbroek, Eibergen, 9.IV.1993, HS.

### 64 duplicata (Grandjean, 1953)

Several records by Zaitsev & Berg (2001) and RMNH; litter in old forest stand, Ugchelen, 3.v.1994, HS.

## MALACONOTHRIDAE

## Malaconothrus Berlese, 1904

It is possible that all species described by Van der Hammen, 1952 are varieties of *M. monodactylus* (Michael, 1888); the species has a thelytokous reproduction and formation of distinct clones is to be expected.

However, ecological preferences may occur and therefore the separate species are listed for the moment.

### 65 gracilis Van der Hammen, 1952

Few records from alder marsh and the source of a brook, Ootmarsum, 22.IV.1949; De Lutte, 21.IV.1949, Van der Hammen (1952); moss on tree trunk, Ittervoort, Vijverbroek, 28.III.1993, HS.

### 66 mollisetosus Hammer, 1952

Several records by Zaitsev & Berg (2001).

### 67\* monodactylus (Michael, 1888)

*Malaconothrus* *egregius* Berlese, 1910

Birchbrook, Zwilbroek, Eibergen, 9.IV.1993, HS.

### 68 processus Van der Hammen, 1952

Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); in *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

### 69 punctulatus Van der Hammen, 1952

Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); in moss on soil, Mook, Helkuil, 28.VIII.1989, HS.

## Trimalaconothrus Berlese, 1916

### 70\* angulatus Willmann, 1931

Veenendaal, Blauwe Hel, peat swamp, 31.VIII.1989, HS.

### 71\* glaber (Michael, 1888)

Terschelling, Dellewal, 22.IV.1975; Wieringen, Normerdijk, 12.XII.1975, RMNH.

### 72 grandis Van der Hammen, 1952

Record from the type locality, Rockanje, 17.IX.1948, Van der Hammen (1952); Rockanje, 1.IX.1968, RMNH.

### 73 maior (Berlese, 1910)

*Malaconothrus* *novus* Sellnick, 1921

*Trimalaconothrus* *tardus*; Buitendijk 1945 [misidentification]

*Camisia* *monodactyla*; Oudemans 1925 [misidentification]

Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); Ameland, 29.VI.1972, RMNH (all sub *T. novus*); birchbrook, Zwilbroek, Eibergen, 9.IV.1993, HS.

## TRHYPOCHTHONIIDAE

## Trhypochthonius Berlese, 1904

### 74 cladonicola (Willmann, 1919)

Few records, in lichens in heathland, maybe decreasing, Hoenderloo, 11.X.1948; Lattrop 22.IV.1949, Van der Hammen (1952); Ommen, Lemelerberg, 19.VI.1973, RMNH.

### 75\* tectorum (Berlese, 1896)

*Trhypochthonius* *nigricans*; Jørgensen 1934 [misidentification]

Few records, but probably more widespread. Ameland, 19.X.1975; Ubbergen, 19.XII.1977; Meyendel (ZH), 21.I.1973; Rijnsburg, 7.XII.1954; Utrecht, 13.V.1975; Schouwen Duiveland, Oosterland, 6.X.1974; Vlissingen, 20.II.1973, RMNH; Bergen (NH), date unknown; Boxtel, in moss on roof tiles, 20.VII.1989, HS.



## TRHYPOCHTHONIELLIDAE

*Trhypochthoniellus* Willmann, 192876 *excavatus* (Willmann, 1919)

Hoge Veluwe in *Sphagnum*, IJzeren Man, 11.X.1948, Van der Hammen (1952); in pond with *Sphagnum*, Beekbergen, Reeënberg, 19.VII.1989, HS; Ommen, Beerzerveld, 20-21.VI.1973, RMNH.

## NOTHRIDAE

*Nothrus* C.L. Koch, 183577 *anauniensis* Canestrini & Fanzago, 1876  
*Nothrus silvestris anauniensis* Canestrini & Fanzago 1876

*Camisia biciliatus*; Oudemans 1902 [misidentification]

*Nothrus biciliatus*; Sellnick & Forslund 1955 [misidentification]

Forest litter, Maastricht, St. Pietersberg, 6.V.1949, Van der Hammen (1952); Hackfort, Vorden, 1959, Minderman (1981); several records by Zaitsev & Berg (2001) and RMNH; birch brook, Nieuwkoop, 2.VII.1992; Maastricht, St. Pietersberg, 21.IV.1994, HS.

78 *palustris* C.L. Koch, 1839

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Rhytidadelphus squarosus* on sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.

79\* *pratensis* Sellnick, 1929

In marshes in *Sphagnum*, Spier, 23.VII.1949; Hoge Veluwe, 11.X.1948; Heerenveen, 18.VI.1979; Helumer Oldeferd, 19.VI.1979, Losser, 1.VI.1990; Ommen, 19-21.VI.1973; Vriezenveen, 28.VIII.1979; Winterswijk, Korenburgerveen, 2.VII.1975; Putten, 20.IX.1969; Wijster, 9.VIII.1962; Delft, 21.V.1972; Bemelen, 15.X.1952, RMNH.

80 *silvestris* Nicolet, 1855

*Nothrus anauniensis*; Berlese 1885 [misidentification]

*Angelia anauniensis*; Lombardini 1936 [misidentification]

Several records by Van der Hammen (1952), Zaitsev & Berg (2001), HS, ALT and RMNH.

## CAMISIIDAE

*Camisia* von Heyden, 182681 *biurus* (C.L. Koch, 1839)

*Camisia exuvialis* Grandjean, 1939  
Several records by Van der Hammen (1952) and RMNH; litter around *Juniperus* shrubs Otterlo 6.IX.1989, HS.

82 *biverrucata* (C.L. Koch, 1839)

*Nothrus horridus*; Nicolet 1855 [misidentification]

*Camisia fischeri* Oudemans, 1900

Few records on dry vegetations, Meyendel, 24.III.1949, Van der Hammen (1952) and RMNH; Zwarte polder, Zeeuws Vlaanderen, 14.VII.1974, RMNH.

83\* *horrida* (Hermann, 1804)

*Nothrus mutilus* C.L. Koch, 1839

*Nothrus bistriatus* C.L. Koch, 1839

*Nothrus sinuatus* C.L. Koch, 1839

*Nothrus runcinatus* C.L. Koch, 1839

*Nothrus angulatus*; Berlese 1883 [misidentification]

*Nothrus rugulosus* Banks, 1895

Ameland, 9.VI.1983; Weerselo 29.V.1990; Wellerlooise Bos (LI), 1977; Weert, 1976; Haelen, 28.VI.1978; Hilvarenbeek, 15.VI.1977; Goeree, Springergors, 6.VI.1975; Overflakkee, Ooltgensplaat, 1975, RMNH; litter of *Thuja*, Beekbergen, Nieuw Dennenlust, 11.VII.1989, HS.

84 *invenusta* (Michael, 1888)

Terschelling, De Kom, 31.X.1972, RMNH; Moss on stone, Arnhem, Schaarsbergen, 5.VII.1990, HS.

85 *segnis* (Hermann, 1804)

*Nothrus bicarinatus* C.L. Koch, 1839

*Nothrus rostratus* C.L. Koch, 1839

*Nothrus ventricosus* C.L. Koch, 1839

*Nothrus excisus* Banks, 1895

Several records by Van der Hammen (1952), RMNH, Zaitsev & Berg (2001) and Noordijk & Berg (2001); among conifer litter, Arnhem, Schaarsbergen, 4.VII.1989, HS.

86 **spinifer (C.L. Koch, 1835)**

*Nothrus taurinus* Banks, 1906  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001), HS, ALT and RMNH.

**Heminothrus Berlese, 1913**

87 **targionii (Berlese, 1885)**

In forests, Maastricht, St. Pietersberg, 6.v.1949,  
Van der Hammen (1952); litter between  
*Equisetum hyemale*, Bekkendelle, Winterswijk,  
9.IV.1993, HS.

**Platynothrus Berlese, 1913**

88 **peltifer (C.L. Koch, 1839)**

*Nothrus palliatus* C.L. Koch, 1839  
*Nothrus bistriatus*; Nicolet 1855 [misidentifi-  
cation]  
*Nothrus cirrosus* Canestrini & Fanzago  
1876  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001), HS, ALT, RMNH.

89\* **thori (Berlese, 1904)**

Hasselt, II.VI.1985, RMNH; in moss in a peat  
swamp, Veenendaal, De Hel, 7.IX.1989, HS.

**NANHERMANNIIDAE**

**Nanhermannia Berlese, 1913**

90 **comitalis Berlese, 1916**

*Nanhermannia ussurica* Golosova, 1969  
Specimens sampled from wet hayfields and  
moors, Maasland, 2.IV.1949, Van der Hammen  
(1952); several records from Zaitsev & Berg  
(2001) and RMNH.

91 **coronata Berlese, 1913**

*Nanhermannia nana*; Willmann 1931 [misi-  
dentification]  
Several records by Zaitsev & Berg (2001) and  
RMNH; birchbrook, Zwillbroek, Eibergen,  
9.IV.1993, HS.

92 **elegantula Berlese, 1913**

*Nanhermannia areolata* Strenzke, 1953  
Several records by Van der Hammen (1952);  
oak litter, Hoge Veluwe, Franse Berg,  
7.VIII.1989, HS.

93 **nana (Nicolet, 1855)**

*Nanhermannia elegantula*; Sellnick 1928  
[misidentification]  
*Nanhermannia dorsalis elegantula* Jacot,  
1937  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); in *Mnium*  
on border of a ditch, Beekbergen, Elsbosweg,  
14.VII.1991, HS.

94 **pectinata Strenzke, 1953**

Agelerbroek, Ootmarsum, 26.IV.2000,  
Zaitsev & Berg (2001); Ameland, Eendekooi,  
4.III.1972, RMNH; in *Marchantia* at a steep  
slope of a stream, Döttekro, Winterswijk,  
9.IV.1993, HS.

95 **sellnicki Forslund, 1958**

Ulvenhoutshe Bos, Nieuw Ginniken,  
24.V.2000, Zaitsev & Berg (2001); old  
hedgerow, Stroe, Walweg, 25.IX.1997, HS.

**HERMANNIIDAE**

**Hermannia Nicolet, 1855**

96 **gibba (C.L. Koch, 1840)**

*Angelia piceus* Berlese, 1885  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) & RMNH; moss on dead  
*Prunus*, Rijkholt, Savelsbos, 21.IV.1994, HS.

97 **nodosa Michael, 1888**

*Nothrus scabrus* L. Koch, 1879 (partim)  
*Lohmannia scabra* (L. Koch, 1879)  
Records from the seashore from Oudemans  
(Putten, Zeeburg) and Geijskes (Griend) in  
Van der Hammen (1952); Ameland, 4.III.1972;  
8.VI.1972, Holwerd; 16.X.1975, Gaasterland;  
23.III.1973, Sas van Goes, 20.II.1973 and  
9.XI.1972; Stavenisse (Tholen), 3.XI.1974;  
Rilland, 28.VIII.1975; Dieden, (NB), v.1975,  
RMNH; litter on the bank, Texel, Mokbaai,  
6.II.1993, HS.

98\* **subglabra Berlese, 1910**

*Nothrus scabrus* L. Koch, 1879 (partim)  
Vast amount of records from the survey of  
P.G.J. Polderman, all seashore data at RMNH.

## HERMANNIELLIDAE

**Hermanniella Berlese, 1908****99\* dolosa Grandjean, 1931**

Litter between *Equisetum hyemale*,  
Bekkendelle, Winterswijk, 9.IV.1993, HS.

**100 granulata (Nicolet, 1855)**

Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); in moss,  
Winterswijk, Willink Weuste, 9.IV.1993, HS.

**101 punctulata Berlese, 1908**

*Nothrus piceus* C.L. Koch, 1839 (probably  
not *Hermanniella*)  
Several records by Van der Hammen (1952);  
Hackfort, Vorden, 1959, Minderman (1981).

**102\* septentrionalis Berlese, 1910**

*Hermanniella punctulata septentrionalis*  
Berlese, 1910  
Litter under *Anemone nemorosa*, Maastricht,  
St. Pietersberg, 21.IV.1994, HS.

## NEOLIODIDAE

**Poroliodes Grandjean, 1934****103\* farinosus (C.L. Koch, 1840)**

*Nothrus theleproctus* Michael, 1888  
Vorden, Hackfort, 11.I.1962, Oldematen (ov),  
11.VI.1985, RMNH.

## GYMNODAMAEIDAE

**Gymnodamaeus Kulczynski, 1902****104\* bicostatus (C.L. Koch, 1836)**

In epiphytes, St. Pietersberg (LI), 14.X.1952,  
RMNH.

## LICNODAMAEIDAE

**Licnodamaeus Grandjean, 1931****105 pulcherrimus (Paoli, 1908)**

Dry litter in sand dunes, Meyendel, 22.I.1949,  
22.III.1949, 1.IV.1949, Van der Hammen (1952);  
Meyendel, 21.I.1974, RMNH; Castricum, Vogel-  
duin, 24.X.2007; Wijk aan Zee, Noorderduin  
en De Rellen, 24.X.2007, ALT.

## DAMAEIDAE

**Adamaeus Norton, 1977****106 onustus (C.L. Koch, 1841)**

*Damaeus geniculatus* C.L. Koch 1841  
*Belba geniculosa* Oudemans, 1929  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); in *Mnium*  
at a steep slope of a stream, Döttekro,  
Winterswijk, 9.IV.1993, HS.

**Belba von Heyden, 1826****107 corynopus (Hermann, 1804)**

*Damaeus sufflexus* Michael, 1885  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; litter un-  
der *Ficaria verna*, Winterswijk, Bekkendelle,  
9.IV.1993, HS.

**108 bartosi Winkler, 1955**

*Belba pseudocorynopus* Märkel & Meyer,  
1960  
One record, Bekkendelle, Winterswijk,  
16.III.1999, Zaitsev & Berg (2001).

**Damaeobelba Sellnick, 1929****109 minutissima (Sellnick, 1920)**

Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); old forest  
stand in litter, Hoenderlose Bos, 3.V.1994, HS.

**Damaeus C.L. Koch, 1835****110 auritus C.L. Koch, 1835**

*Oribata gracilipes* Kulczynski, 1902  
An old record from Denekamp by Oudemans  
and from Maastricht, St. Pietersberg, 6.V.1949  
and 22.IX.1949, Van der Hammen (1952);  
Ubbergen, 7.VI.1988; Groesbeek, De Bruuk,  
10.VI.1988; Waterop (LI), VI.1986; Huys te  
Linschoten, 4.VI.1985 (sub *D. gracilipes*),  
RMNH; in moss on soil, Mook, Helkuil,  
23.VIII.1989, HS.

**Epidamaeus Bulanova-Zachvatkina, 1957**

- 111 **glabriseta** (Willmann, 1930)  
Belba verticillipes; Buitendijk 1945 [misidentification]  
Records from Bergen and Nederweert (type specimens) sampled by Oudemans (Van der Hammen 1952).

**Hypodamaeus Bulanova-Zachvatkina, 1957**

- 112 **riparius** (Nicolet, 1855)  
*Oppia aurita* Oudemans, 1900  
Haarlem, Oudemans, Van der Hammen (1952); Heemskerck, 12.IV.2000, Zaitsev & Berg (2001).

**Kunstdamaeus Miko, 2006**

- 113\* **tecticola** (Michael, 1888)  
Roof of shed with reed, Ommen, Lemelerberg, 21.VI.1973, RMNH.

**Metabelba Grandjean, 1936**

- 114 **lanceolata** Van der Hammen, 1952  
In *Sphagnum*, Lattrop (type locality), 22.IV.1949, Van der Hammen (1952).
- 115 **papillipes** (Nicolet, 1855)  
*Metabelba cremersi* Van der Hammen, 1952  
*Damaeus michaelii* Hull, 1915  
Several records by Van der Hammen (1952) (sub *M. cremersi*); Winterswijk, Bekkendelle, RMNH; litter under *Ficaria verna*, Winterswijk, Bekkendelle, 9.IV.1993, HS.
- 116\* **pulverosa** Strenzke, 1953  
*Oribata pulverulenta* Kulczynski 1902 (misident. and suppressed, nec *Nothrus pulverulentus* C.L. Koch, 1839)  
Meyendel (ZH), 30.V.1968 and 13.V.1971, Linschoten (UT), 4.VI.1985, RMNH (sub *M. pulverulenta*).
- 117 **rohdendorfi** Bulanova-Zachvatkina, 1965  
Bekkendelle, Winterswijk, 16.III.1999, Zaitsev & Berg (2001) (sub *Belba* spec.).

118\* **sphagni** Strenzke, 1950

Engbertsdijksveen (OV), 1974, RMNH; quagmire, Westbroekse Zodden, 29.VI.1992, HS.

**Paradamaeus Bulanova-Zachvatkina, 1957**

- 119 **clavipes** (Hermann, 1804)  
*Damaeus nodipes* C.L. Koch, 1839  
*Acarus geniculatus* Johnston, 1849  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001), HS, ALT and RMNH.

**Porobelba Grandjean, 1936**

- 120\* **spinus** (Sellnick, 1920)  
Oldebroek (GE), 21.II.1961, RMNH; litter around *Juniperus* shrubs, Otterlo, 6.IX.1989, HS.

**Spatiodamaeus Bulanova-Zachvatkina, 1957**

- 121 **verticillipes** (Nicolet, 1855)  
Belba torva Oudemans, 1897  
*Damaeus quadrihastatus* Märkel & Meyer, 1960  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001), HS, ALT and RMNH.

**CEPHEIDAE**

**Cepheus C.L. Koch, 1835**

- 122 **cephiformis** (Nicolet, 1855)  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); in *Thuja* litter, Beekbergen, Nieuw Dannelust, 11.VII.1989, HS.
- 123 **dentatus** (Michael, 1888)  
Several records by Zaitsev & Berg (2001) and RMNH; beech forest east of Nijmegen, 3.IX.1989, HS.
- 124\* **latus** C.L. Koch, 1835  
In forest litter and dead wood, Vaals, Vijlenerbos and Schimperbos, 28.V.1982, RMNH.

**Tritegeus Berlese, 1913**

**125 bisulcatus Grandjean, 1953**

*Cepheus bifidatus* Nicolet, 1855  
Damp moss vegetations, Delden, Oudemans;  
De Lutte, 21.IV.1949, Van der Hammen (1952);  
Maastricht, St. Pietersberg, 12.IX.1950; Sla-  
vante, 25.IX.1951; Plasmolen 22 and 31.X.1968;  
Westendorp (GE), 22.VI.1980, NAT; Catsop,  
Elsloo, 2.VI.2000, Zaitsev & Berg (2001); in  
*Mnium* at a steep slope of a stream, Dötterkrö,  
Winterswijk, 9.IV.1993; moss on soil, Mook,  
Helkuil, 23.VIII.1989, HS.

**AMERIDAE**

**Amerus Berlese, 1896**

**126 Amerus polonicus Kulczynski, 1902**

*Amerus troisii*; Sellnick 1928 [misidentifica-  
tion]  
Rare species, an old record from Oudemans  
(Den Haag) in Van der Hammen (1952) and  
some recent from Zaitsev & Berg (2001).

**AMEROBELBIDAE**

**Amerobelba Berlese, 1908**

**127 Amerobelba decedens Berlese, 1908**

*Eremobelba maxima* Willmann, 1951  
Adornispolder, Oostburg, 14.VII.1974, Polder-  
man & de Vries (1978); Huys te Linschoten  
(UT), 4.VI.1985, RMNH; Verlengde Bemerlerberg  
(LI), 20.XI.2007, HS.

**DAMAEOLIDAE**

**Fosseremus Grandjean, 1954**

**128 laciniatus (Berlese, 1905)**

*Fosseremus quadripertitus* Grandjean, 1965  
*Damaeolus ornatus* Mihelcic, 1956  
Adornispolder, Oostburg, 14.VII.1974, Polder-  
man & de Vries (1978); Hackfort, Vorden,  
1959, Minderman (1981); litter under *Anemone*  
*nemorosa*, Maastricht, St. Pietersberg,  
21.IV.1994, HS.

**CTENOBELBIDAE**

**Ctenobelba Balogh, 1943**

**129\* pectiniger (Berlese, 1908)**

*Murcia obsoleta* Koch, 1841 (spec. inquirenda)  
Few records: Ooij, Ubbergen (GL), 4.IV.2002;  
Druten (GL), 6.III.2002, both in grassland  
on a clay soil; chalk grassland, Eijsderheide,  
28.XI.2007, ALT, HS.

**EREMAEIDAE**

**Eueremaeus Mihelcic, 1963**

**130 oblongus (C.L. Koch, 1835)**

*Eremaeus major* Mihelcic, 1953  
Several records by Van der Hammen (1952)  
and RMNH.

**131\* silvestris (Forsslund, 1955)**

*Eremaeus granulatus* Mihelcic, 1955  
*Eremaeus fuguratus* Winkler, 1956  
Moss on oak, Hoge Veluwe, Franse Berg,  
6.IX.1989, HS; some records under *E. oblongus*  
(130) may refer to this species.

**ZETORCHESTIDAE**

**Zetorchestes Berlese, 1888**

**132 flabarius Grandjean, 1951**

Maastricht, St. Pietersberg, 14.X.1952, Krispin  
(1987).

**MICROZETIDAE**

**Microzetes Berlese, 1913**

**133 septentrionalis (Kunst, 1963)**

Bovenpolder, Amerongen, 4.IV.2000; Amster-  
damse Bos, Amsterdam, 15.VIII.2000, Zaitsev  
& Berg (2001).

## CALEREMAEIDAE

### Caleremaeus Berlese, 1910

#### 134 *monilipes* (Michael, 1882)

Kolhorn remnant in neolithic well, 1983,  
Schelvis (1992); Winterswijk, 1.VII.1975;  
Haelen, 28.VI.1978; Platte Bos (LI), 4.VI.1987,  
Vijlenerbos (LI), 30.III.1975; Bissen (LI),  
30.III.1975; Vaals, 28.V.1985; Eperheide (LI);  
26.V.1985, RMNH.

## TENUIALIDAE

### Hafenrefferia Oudemans, 1906

#### 135 *gilvipes* (C.L. Koch, 1839)

*Liacarus pterotus* Coggi, 1900  
*Liacarus auritus* Nordenskiöld, 1901  
Rare species with few records from Oudemans  
in Oosterbeek and Arnhem, Van der Ham-  
men (1952); Rhenen, Blauwe Kamer, VI.1991;  
Doorn, 16.VIII.1983; Winterswijk, 3.VII.1975;  
Doetinchem, 23.VI.1983; Mook, 8.VI.1988;  
Valkenburg, 23.V.1982; RMNH; forest litter,  
Arnhem, Schaarsbergen, 8.XI.1989, HS.

## GUSTAVIIDAE

### Gustavia Kramer, 1879

#### 136\* *fusifer* (C.L. Koch, 1841)

Winterswijk, 2.VII.1975; Beuningen,  
15.VIII.1963; Bemelen, 15.IX.1952, RMNH.

#### 137 *microcephala* (Nicolet, 1855)

*Gustavia sol* Kramer, 1879  
Few records from literature (Leeuwen by  
Oudemans in Van der Hammen (1952));  
recently by Zaitsev & Berg (2001) and RMNH;  
forest litter, Winterswijk, Bekkendelle,  
9.IV.1993, HS.

## ASTEGISTIDAE

### Astegistes Hull, 1916

#### 138\* *pilosus* (C.L. Koch, 1841)

*Acarus muscorum* Scopoli, 1763  
*Zetes pilosus* C.L. Koch, 1841  
*Liacarus bicornis* Warburton & Pearce, 1905

Hull (1916) named *Liacarus bicornis* War-  
burton & Pearce, 1905 the type species of  
*Astegistes*, which was considered later as a  
synonym of *Zetes pilosus* C.L. Koch, 1841  
and *Acarus muscorum* Scopoli, 1763.  
Slochteren, 21.VI.1984; Zwartsluis, 13.VI.1985;  
Groesbeek, 10.VI.1988; Mook, 30.X.1980;  
Pannerden, 24.VI.1980; Waterland (NH),  
5.VI, 3.VII, 6.VII and 19.IX.1984, RMNH; quag-  
mire, Veenendaal, Blauwe Hel, 3.VII.1992, HS.

### Cultroribula Berlese, 1908

#### 139 *bicultrata* (Berlese, 1904)

*Cultroribula trifurcata* Jacot, 1939  
*Cultroribula szent-ivanovi* Balogh, 1943  
*Cultroribula falcata* Evans, 1952  
*Cultroribula trifurcata rotundata* Krivo-  
lutski, 1962  
Several records by Zaitsev & Berg (2001);  
forest litter, Ugchelense Bos, 3.V.1994, HS.

#### 140\* *juncta* (Michael, 1885)

Heerenveen, 18.VI.1979; Ubbergen, 7.VI.1988;  
Trekkerduinen (UT), 16.VIII.1983; Onderste Bos  
(LI), 3.VI.1987; Gulpen, 26.V.1982; Valkenburg,  
23.V.1982; Swalmen, 26.VI.1978, RMNH.

## LIACARIDAE

### Adoristes Hull, 1916

#### 141 *ovatus* (C.L. Koch, 1839)

*Leiosoma pyrigerum* Berlese, 1888  
*Adoristes poppei* (Oudemans, 1906)  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001), HS, ALT, RMNH  
Sub *A. poppei*: Bemelen, 15.X.1952; Platte  
Bos (LI), 23.VIII.1988, RMNH; oak forest with  
*Deschampsia flexuosa*, Hoog Soeren, 1.IX.1988;  
in *Thuja* litter, Beekbergen, Nieuw Dommelust,  
24.VII.1989, HS.

### *Liacarus* Michael, 1898

#### 142 *coracinus* (C.L. Koch, 1840)

*Leiosoma similis* Nicolet, 1855  
*Liacarus parvus* Mihelcic, 1956  
Several records by Van der Hammen (1952),  
RMNH.

- 143 **nitens** (Gervais, 1844)  
Bergh en Terblijt, Bergheide, 1.VI.2000,  
Zaitsev & Berg (2001); Maastricht, St. Pieters-  
berg, 12.IX.1950; Slavante, 25.IX.1951; Roden  
(DR), 7.IX.1976; Oldematen (OV), 10 and  
11.VI.1985, RMNH.
- 144 **subterraneus** (C.L. Koch, 1844)  
*Leiosoma lativentris* Nicolet, 1855  
*Leiosoma globosum* Berlese, 1885  
*Liacarus temellae* Willmann, 1931  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH. Hackfort,  
Vorden, 1959, Minderman (1981); litter  
between *Equisetum hyemale*, Bekkendelle,  
Winterswijk, 9.IV.1993, HS.
- 145\* **xylariae** (Schränk, 1803)  
Groesbeek, 8.VI.1988; Vorden, Hackfort, 1965;  
Heerenveen, 18.VI.1979; Valkenburg, 23.V.1982,  
RMNH; old hedgerow, Harskamp, 25.IX.1997, HS.

**Xenillus Robineau-Desvoidy, 1839**

- 146 **clypeator** Robineau-Desvoidy, 1839  
*Xenillus latus* (Nicolet, 1855)  
*Cepheus permixtus* André, 1925  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); in *Mnium*  
on border of a ditch, Beekbergen, Elsbosweg,  
14.VII.1991, HS.
- 147\* **discrepans** Grandjean, 1936  
Moss on tree trunk, Mook, De Diepen,  
23.VIII.1989, HS.
- 148 **tegeocranus** (Hermann, 1804)  
*Cepheus vulgaris* Nicolet, 1855  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH. Hackfort,  
Vorden, 1959, Minderman (1981); forest litter,  
Arnhem, Schaarsbergen, 20.VII.1989, HS.

**METRIOPIIDAE**

**Ceratoppia Berlese, 1908**

- 149 **bipilis** (Hermann, 1804)  
*Ceratoppia herculeana* Berlese, 1908  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001), HS, ALT and RMNH.

**CARABODIDAE**

**Carabodes C.L. Koch, 1835**

- 150\* **areolatus** Berlese, 1916  
Westerbroek (GR), 20.VI.1984; Slochteren,  
21.VI.1984; Winterswijk, 1.VII.1975; Apeldoorn,  
v.1984; Vredepeel (NB), 31.IX.1975; Valkenburg,  
23.V.1982; Vijlenerbos (LI), 29.V.1974,  
30.III.1975; Bissen (LI), 30.III.1975, RMNH.
- 151 **coriaceus** C.L. Koch, 1835  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; hedgerow,  
Klarenbeek, 22.IX.1997, HS.
- 152 **femoralis** (Nicolet, 1855)  
Several records by Zaitsev & Berg (2001) and  
RMNH; forest litter, Ugchelense Bos, 3.V.1994,  
HS.
- 153 **labyrinthicus** (Michael, 1879)  
*Cepheus heimi* Oudemans, 1903  
*Carabodes vermiculatus* Berlese, 1916  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001), HS, ALT and RMNH.
- 154 **marginatus** (Michael, 1890)  
*Cepheus minutus* Oudemans, 1896  
Several records by Van der Hammen (1952)  
and RMNH; grassy heathland, Deelerwoud,  
22.VIII.1988, HS.
- 155\* **ornatus** Storkan, 1925  
*Carabodes forsslundi* Sellnick, 1953  
Bissen (LI), 30.III.1975, Winterswijk, 1.VII.1975,  
RMNH.
- 156\* **rugosior** Berlese, 1916  
Vijlenerbos (LI), 29.V.1974, RMNH.
- 157 **willmanni** Bernini, 1975  
*Carabodes minusculus*; Sellnick 1928,  
Willmann 1931 [misidentification]  
Several records by Van der Hammen (1952)  
and Zaitsev & Berg (2001); in *Cladonia arbus-  
cula* in sand dunes, Texel, De Slufter, 7.II.1993,  
HS. Many of the older records of *C. minusculus*  
refer to this species; *C. willmanni* is recognised  
since 1975.

**Odontocpeus Berlese, 1913**

**158 elongatus (Michael, 1879)**

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; forest litter, Hoenderlose Bos, 3.v.1994, HS.

**TECTOPEIIDAE**

**Tectocephus Berlese, 1896**

**159\* alatus Berlese, 1913**

Texel, De Mok, 14.XII.1974, RMNH.

**160\* bisignatus Moritz, 1968**

In *Marchantia* at a steep slope of a stream, Döttekro, Winterswijk, 9.IV.1993, HS.

**161 cuspidentatus Knülle, 1954**

Several records by Zaitsev & Berg (2001).

**162\* sarekensis Trägårdh, 1910**

*Tectocephus velatus sarekensis* Trägårdh, 1910

*Tectocephus velatus angulatus* Mihelcic, 1957

*Tectocephus velatus ibericus* Mihelcic, 1957

*Tectocephus velatus inflexus* Mihelcic, 1957  
In *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

**163 velatus (Michael, 1880)**

Several records by Van der Hammen (1952), Zaitsev & Berg (2001), HS, ALT and RMNH.

**QUADROPPIIDAE**

**Quadropia Jacot, 1939**

**164 bellula Luxton, 1987**

Several records by Zaitsev & Berg (2001).

**165\* maritima Lions, 1982**

Moss under *Sambucus*, Texel, Horsmeertjes, 6.II.1993, HS.

**166 michaeli Mahunka, 1977**

Several records by Zaitsev & Berg (2001).

**167\* monstrosa Hammer, 1979**

Among litter with *Anemone nemorosa*, St. Pietersberg, Maastricht, 21.IV.1994, HS.

**168 quadricarinata (Michael, 1885)**

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; soil sample (depth: 4.6 cm), Deelerwoud, 24.VI.1988, HS.  
Note: Some of the older records may refer to the more recently described *Quadropia* sp.

**MACHUELLIDAE**

**Machuella Hammer, 1961**

**169 draconis Hammer, 1961**

Several records by Zaitsev & Berg (2001); birchbrook, Zwillbroek, Eibergen, 9.IV.1993, HS.

**OPPIIDAE**

**Berniniella Balogh, 1983**

**170\* bicarinata (Paoli, 1908)**

Nijmegen, v.1976, moss in garden, RMNH.

**171\* lunaris (Evans, 1952)**

Litter between *Equisetum hyemale*, Bekkendelle, Winterswijk, 9.IV.1993, HS.

**172 serratiostris (Golosova, 1970)**

Zwillbroek, Eibergen, 16.III.1999, Zaitsev & Berg (2001).

**173 sigma (Strenzke, 1951)**

Several records by Van der Hammen (1952) and Zaitsev & Berg (2001).

**Dissorhina Hull, 1916**

**174 ornata (Oudemans, 1900)**

*Damaeosoma tricarinata* Paoli, 1908

*Damaeosoma splendens*; Berlese 1895 [misidentification]

Several records by Van der Hammen (1952), Zaitsev & Berg (2001), HS, ALT and RMNH.

**Hypogeoppia Subias, 1981**

**175\* terricola Subias, 1981**

Old hedgerow, Epe, Vemde, 22.IX.1997, HS.

**Ramusella Hammer, 1962**

**176 clavipectinata (Michael, 1885)**

Several records by Van der Hammen (1952), ALT and RMNH.



- 177\* *furcata* (Willmann, 1928)  
*Oppia furcata*; Kunst 1958 [misidentification]  
 Linschoten (UT), 4.VI.1985, RMNH.
- 178\* *insculpta* (Paoli, 1908)  
 Old hedgerow, Woudenberg, 25.IX.1997, HS.
- Microppia Balogh, 1983**
- 179 *minus* (Paoli, 1908)  
 Several records by Zaitsev & Berg (2001) and RMNH; grassland, Hoge Veluwe, Compagnieberg I.VIII.1989, HS.
- 180\* *minutissima* (Sellnick, 1950)  
 Forest litter, Ugchelense Bos, 3.V.1994, HS.
- Moritzoppia Subias & Minguez, 1988**
- 181 *neerlandica* (Oudemans, 1900)  
*Eremaeus longilamellatus* var. *neerlandica*  
 Oudemans, 1900  
 Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH.
- 182\* *translamellata* (Willmann, 1923)  
 Moss on tree trunk, Leersum, VI.1975, RMNH.
- 183 *unicarinata* (Paoli, 1908)  
 Mantingerbos, Mantinge, 23.VII.1949, Van der Hammen (1952); in moss at the foot of an oak, Rhenen, Grebbeberg, IX.1989, HS; Rhenen, Blauwe Kamer, VI.1991; Weert, 1976; Westerbroek (GR), 20.VI.1984; Slochteren, 21.VI.1984, RMNH.
- Oppia C.L. Koch, 1835**
- 184 *nitens* C.L. Koch, 1835  
 Maastricht, St. Pietersberg, 6.V.1949, Van der Hammen (1952).
- Oppiella Jacot, 1937**
- 185 *falcata* (Paoli, 1908)  
 Several records by Van der Hammen (1952) and RMNH; old hedgerow, Epe, Vemde, 22.IX.1997, HS.
- 186\* *maritima* (Willmann, 1929)  
*Damaeosoma falcatum* *maritima* Willmann, 1929  
*Oppia fissurata*, Hammer, 1952  
 In moss, Winterswijk, Willink Weuste, 9.IV.1993, HS.
- 187 *nova* (Oudemans, 1902)  
*Damaeosoma corrugatum* Berlese, 1904  
*Notaspis sculptilis* Warburton & Pearce, 1905  
*Damaeosoma neerlandicum*; Sellnick 1928 [misidentification]  
*Oppia neerlandica*; Willmann 1931 [misidentification]  
 Several records by Van der Hammen (1952), Zaitsev & Berg (2001), HS, ALT and RMNH.
- 188\* *splendens* (C.L. Koch, 1841)  
 Vaals, 28.V.1982; Wrakelberg (LI), 23.VIII.1988; Vijlenerbos (LI), 22.VIII.1988; Platte Bos (LI), VI.1986; Eyserbos (LI), VI.1986; Gulpen, 26.V.1982, RMNH; beech forest east of Nijmegen, 3.IX.1989, HS.
- 189\* *uliginosa* (Willmann, 1919)  
 Birchbrook, Zwilbroek, Eibergen, 9.IV.1993, HS.
- Rhinoppia Balogh, 1983**
- 190\* *fallax* (Paoli, 1908)  
*Oppiella dubia* Hammer, 1962  
 Heerenveen, 18.VI.1979; Gaasterland, 19.VI.1979; Waterland (NH), 12.VI.1984; Eyserbos (LI), 2.VI.1987; St.Odiliënberg, 29.VI.1978; Vaals, 28.V.1982; Gulpen, 26.V.1982, RMNH.
- 191 *obsoleta* (Paoli, 1908)  
*Damaeosoma vitrinum* Hull, 1914  
 Several records by Zaitsev & Berg (2001) (sub *M. media*) and RMNH; in *Rhytidiadelphus squarrosus* on sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.
- 192 *subpectinata* (Oudemans, 1900)  
*Belba pectinata*; Berlese 1892 [misidentification]  
*Damaeosoma clavipectinatum*; Paoli 1908 [misidentification]  
 Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Mnium* at a steep slope of a stream, Döttekrö, Winterswijk, 9.IV.1993, HS.

SUCTOBELBIDAE

**Allosuctobelba Moritz, 1970**

**193\* grandis (Paoli, 1908)**

Suctobelba grandis europaea Willmann, 1933

Suctobelba europaea Willmann, 1933

Zeevang, 21.VI.1983; Schoorl, 21.VI.1983;

Gulpen, 26.V.1982, RMNH.

**Suctobelba Paoli, 1908**

**194\* altvateri Moritz, 1970**

In *Mnium* on border of a ditch, Beekbergen,

Elsbosweg, 14.VII.1991, HS.

**195 granulata Van der Hammen, 1952**

Suctobelba trigona f. granulata Van der

Hammen, 1952

Several records by Van der Hammen (1952);

in *Mnium* on border of a ditch, Beekbergen,

Elsbosweg, 14.VII.1991, HS.

**196\* secta Moritz, 1970**

Litter between *Equisetum hyemale*,

Bekkendelle, Winterswijk, 9.IV.1993, HS.

**197\* trigona (Michael, 1888)**

Hasselt, 11.VI.1985; Ubbergen, 7.VI.1988;

Treekerduinen (UT), 16.VIII.1983; Spaubeek,

25.V.1982; Valkenburg, 23.V.1982; Mook,

8.VI.1988; Onderste Bos (LI), 3.VI.1987;

Wellerlooise Bos (LI), 1977, RMNH.

**Suctobelbella Jacot, 1937**

**198 acutidens (Forsslund, 1941)**

Several records by Van der Hammen (1952),

Zaitsev & Berg (2001) and RMNH; forest litter,

Hoenderloose Bos, 3.V.1994, HS.

**199 lobata (Strenzke, 1950)**

Suctobelba acutidens lobata Strenzke, 1950

Suctobelbella acutidens lobata (Strenzke, 1950)

Several records by Zaitsev & Berg (2001); pine

litter, Ysselstein (LB), 28.III.1993, HS.

**200 alloenasuta Moritz, 1971**

Several records by Zaitsev & Berg (2001); old

hedgerow, Klarenbeek, 22.IX.1997, HS.

**201 falcata (Forsslund, 1941)**

Several records by Van der Hammen (1952)

and Zaitsev & Berg (2001); forest litter,

Ugchelense Bos, 3.V.1994, HS.

**202 forsslundi (Strenzke, 1950)**

Several records by Zaitsev & Berg (2001);

under *Allium ursinum*, Rijkholt, Savelsbos,

21.IV.1994, HS.

**203\* hamata Moritz, 1970**

In *Marchantia* at a steep slope of a stream,

Döttekro, Winterswijk, 9.IV.1993, HS.

**204 hammerae (Krivolutski, 1965)**

Suctobelba hammeri Krivolutski, 1965

Suctobelba sarekensis; Hammer 1952 [misidentification]

Several records by Zaitsev & Berg (2001).

**205 longirostris (Forsslund, 1941)**

Several records by Zaitsev & Berg (2001).

**206\* nasalis (Forsslund, 1941)**

In moss, Winterswijk, Willink Weuste,

9.IV.1993, HS.

**207 palustris (Forsslund, 1953)**

Several records by Van der Hammen (1952),

Zaitsev & Berg (2001) and RMNH; quagmire,

Veenendaal, Blauwe Hel, 3.VII.1992, HS.

**208 perforata (Strenzke, 1950)**

Several records by Zaitsev & Berg (2001) and

RMNH.

**209 sarekensis (Forsslund, 1941)**

Suctobelba cornigera; Trägårdh 1910 [misidentification]

Several records by Van der Hammen (1952)

and Zaitsev & Berg (2001).

**210 similis (Forsslund, 1941)**

Several records by Zaitsev & Berg (2001); forest

litter, Ugchelense Bos, 3.V.1994, HS.

**211 subcornigera (Forsslund, 1941)**

Several records by Van der Hammen (1952),

Zaitsev & Berg (2001), HS and ALT.

**212 subtrigona (Oudemans, 1900)**

Suctobelba intermedia Willmann, 1939

Several records by Van der Hammen (1952),

Zaitsev & Berg (2001) and RMNH; pine litter,

Ysselstein (LI), 28.III.1993, HS.

**213\* tuberculata (Strenzke, 1950)**

Boswachterij Ruurlo (GE), 14.IX.2007; Groll-

oërveld (GE), 21.IX.2007, HS.

**214 vera (Moritz, 1964)**

Several records by Zaitsev & Berg (2001);

forest litter, Ugchelense Bos, 3.V.1994, HS.

## AUTOGNETIDAE

### Autogneta Hull, 1916

#### 215 longilamellata (Michael, 1888)

Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); Hackfort, Vorden, 1959, Minderman (1981); Ameland, Nesserbos, 28.VI.1972, RMNH; birchbrook, Zwillbroek, Eibergen, 9.IV.1993, HS.

### Conchogneta Grandjean, 1963

#### 216 delacarlca (Forsslund, 1947)

Autogneta willmanni (Dyrdowska, 1929)  
Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); litter under *Ficaria verna*, Winterswijk, Bekkendelle, 9.IV.1993, HS.

## THYRISOMIDAE

### Banksinoma Oudemans 1930

#### 217 lanceolata (Michael, 1885)

Oribella castanea; Willmann 1931 [misidentification]  
Xenillus castaneus; Sellnick 1928 [misidentification]  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Rhytidiadelphus squarosus* on sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.

#### 218 oudemansi Fujikawa, 1978

A record from Oudemans, Haarlem, VIII.1898, Fujikawa (1978).

### Oribella Berlese, 1908

#### 219 pectinata (Michael, 1885)

Several records by Van der Hammen (1952); *Sphagnum* in forest, Groesbeek, 7.XI.1989, HS.

### Pantelozetes Grandjean, 1953

#### 220\* multidentata (Evans, 1954)

Oribella paolii multidentata Evans, 1954  
In moss, Winterswijk, Willink Weuste, 9.IV.1993, HS.

#### 221 paolii (Oudemans, 1913)

Eremaeus pectinatus; Oudemans 1900 [misidentification]  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); in *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

## HYDROZETIDAE

### Hydrozetes Berlese, 1902

#### 222 confervae (Schränk, 1781)

Hydrozetes terrestris Berlese, 1910  
Cepheus (Carabodes) coriaceus; Oudemans 1896 [misidentification]  
Records from Oudemans at Sneek and Utrecht, Van der Hammen (1952); quagmire, Westbroekse Zodden, 29.VI.1992, HS.

#### 223 lacustris (Michael, 1882)

Notaspis speciosus Chinaglia, 1917  
Several records by Van der Hammen (1952); Losser, 1 and 3.VI.1990, Waterland (NH), 3.VII.1984, RMNH; *Sphagnum*, Hoge Veluwe, IJzeren Man, 16.VIII.1990, HS.

#### 224 lemnae (Coggi, 1899)

A record from Valkeveen found in the Oudemans collection by Van der Hammen (1952); Kamperland, Veerse Meer, 5.IX.1975, RMNH.

#### 225\* parisiensis Grandjean, 1948

Maarsse, Molenpolder, Westbroek, 3.V.1972, RMNH.

## LIMNOZETIDAE

### Limnozetes Hull, 1916

#### 226 ciliatus (Schränk, 1803)

Oribata sphagni Michael, 1884  
Several records by Van der Hammen (1952) and RMNH; quagmire, Westbroekse Zodden 29.VI.1992, HS.

227\* *foveolatus* Willmann, 1939

*Limnozetes ciliatus foveolatus* Willmann, 1939

*Limnozetes palmerae* Behan-Pelletier, 1989

*Limnozetes sphagni*; Sellnick 1928 [misidentification]

In pond with *Sphagnum*, Beekbergen, Reeënberg, 19.VII.1989, HS.

Due to the former confusion with *L. ciliatus*, many records of *L. foveolatus* may be listed under this species.

228 *rugosus* (Sellnick, 1923)

Several records by Van der Hammen (1952) and RMNH; *Sphagnum*, Hoge Veluwe, IJzeren Man, 16.VIII.1990, HS.

AMERONOTHRIDAE

*Ameronothrus* Berlese, 1896

229 *maculatus* (Michael, 1882)

*Scutovortex pseudomaculatus* Hull, 1914

Records from the sea shore at Zeeburg and inland in Oude Pekela from Oudemans (Van der Hammen (1952) and from the bark of *Platanus* (Noordijk & Berg 2001); many records from the seashore in RMNH.

230 *marinus* (Banks, 1896)

*Scutovortex spoofti* Oudemans, 1900

*Scutovortex bilineatus*; Oudemans 1901 [misidentification]

*Ameronothrus bilineatus spoofti* Hull, 1916

*Ameronothrus fucicolum*; Buitendijk 1945 [misidentification]

*Ameronothrus infusionum*; Buitendijk 1945 [misidentification]

A record from Oudemans at Zeeburg at the sea shore, Van der Hammen (1952); basalt dike, Dollard, Uithuizerwad, 1.XI.1974, RMNH.

231\* *nigrofemoratus* (L. Koch, 1879)

*Ameronothrus lineatus* var. *nigrofemoratus* (L. Koch, 1879)

*Ameronothrus lineatus brevipes* Willmann, 1937

Many records from the seashore in RMNH.

232 *schneideri* (Oudemans, 1905)

Many records from the seashore in RMNH (Polderman 1974).

CYMBAEREMAEIDAE

*Cymbaeremaeus* Berlese, 1896

233 *cymba* (Nicolet, 1855)

*Cymbaeremaeus pulvillifer* Willmann, 1931 (nymph)

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; litter around *Juniperus* shrubs, Otterlo, 7.VIII.1989, HS.

*Scapheremaeus* Berlese, 1910

234 *palustris* Sellnick, 1924

One old record from Oudemans collected from a pond (Van der Hammen (1952).

MICREREMIDAE

*Micreremus* Berlese, 1896

235 *brevipes* (Michael, 1888)

Several records by Van der Hammen (1952) and RMNH; litter between *Equisetum hyemale*, Bekkendelle, Winterswijk, 9.IV.1993, HS.

LICNEREMAEIDAE

*Licneremaeus* Paoli, 1908

236 *licnophorus* (Michael, 1882)

Arnhem, 9.IX.1965; Vriezenveen, 1974;

Hilvarenbeek, 6.VI.1977, RMNH; Litter around *Juniperus* shrubs, Otterlo, 7.VIII.1989, HS.

PASSALOZETIDAE

*Passalozetes* Grandjean, 1932

237 *strenzkei* Weigmann, 2006

*Passalozetes bidactylus*; Willmann 1931, Strenzke 1953 [misidentification]

Records from Oudemans at Valkeveen and at Meyndel, 24.III.1949, Van der Hammen (1952); Domburg, v.1977, Texel, Mokbaai, 12.VIII.1976; Ameland, Buren, 8.VI.1983; Siebengewald (LI), 1977, RMNH; in *Rhytidadelphus squarrosus* on sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.

238\* **perforatus** (Berlese, 1910)

Wijk aan Zee (NH), de Rellen and Vogel-  
duinen, 24.X.2007, HS.

**SCUTOVERTICIDAE**

**Scutovertex Michael, 1879**

239 **minutus** (C.L. Koch, 1836)

Scutovertex ovalis Oudemans, 1900  
Several records by Van der Hammen (1952),  
RMNH, Arnhem Schaarsbergen Forest litter  
14.VII.1989, HS.

240 **pilososetosus** Polderman, 1977

Polderman (1977).

241 **sculptus** Michael, 1879

Several records in Van der Hammen (1952)  
and RMNH.

**PELOPSIDAE**

**Eupelops Ewing, 1917**

242 **acromios** (Hermann, 1804)

Pelops planicornis Willmann, 1931  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH (sub *P. plani-*  
*cornis*); forest litter, Arnhem, Schaarsbergen,  
31.VIII.1989, HS.

243 **curtipilus** (Berlese, 1916)

Eupelops bilobus (Sellnick, 1928)  
*Cladonia* in heathland, Hoge Veluwe,  
Hoenderloo, 11.X.1948; moss in heathland,  
Ossendrecht, 23.II.1949, Van der Hammen  
(1952).

244 **occultus** (C.L. Koch, 1836)

Eupelops nepotulus; Sellnick 1960 [misiden-  
tification]  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; in *Rhytidia-*  
*delphus squarosus* on sand dunes, Horsmeertjes,  
Texel, 6.II.1993; old hedgerow, Klarenbeek,  
22.IX.1997, HS.

245 **oudemansi** (Van der Hammen, 1952)

Record from the type locality Valkeveen in the  
Oudemans collection (Van der Hammen  
1952).

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

Pelops auritus C.L. Koch, 1839  
Pelops laevigatus Nicolet, 1855  
Pelops fuliginosus; Oudemans 1896 [misiden-  
tification]

Pelops fusiger Mihelcic, 1957

Pelops acromios diversipilus Mihelcic, 1957

Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH (part. sub  
*P. auritus*); Hackfort, Vorden, 1959, Minder-  
man (1981); litter under *Ficaria verna*, Winters-  
wijk, Bekkendelle, 9.IV.1993, HS.

247\* **strenzei** (Knülle, 1954)

Quagmire, Westbroekse Zodden, 29.VI.1992,  
HS.

248\* **tardus** (C.L. Koch, 1836)

Moss under *Sambucus*, Texel, Horsmeertjes,  
6.II.1993, HS.

249 **torulosus** (C.L. Koch, 1836)

Rhedensche Heide, Rheden, 28.VIII.2000,  
Zaitsev & Berg (2001).

**Peloptulus Berlese, 1908**

250\* **montanus** Hull, 1914

Probably subfossil records only (peat core  
Vriezenveen), RMNH.

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

Several records by Van der Hammen (1952)  
and RMNH; in *Rhytidadelphus squarosus* on  
sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.

**ACHIPTERIIDAE**

**Achipteria Berlese, 1885**

252 **coleoprata** (Linnaeus, 1758)

Oribata ovalis Nicolet, 1855

Oribates nicoletii Berlese, 1883

Oribata intermedia Michael, 1898

Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); in *Rhytidia-*  
*delphus squarosus* on sand dunes, Horsmeertjes,  
Texel, 6.II.1993, HS.

**253 nitens (Nicolet, 1855)**

Notaspis mixtus Sellnick, 1943  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981), in *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

**Parachipteria Van der Hammen, 1952**

**254 punctata (Nicolet, 1855)**

Notaspis italicus; Willmann 1931 [misidentification]  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; litter around *Juniperus* shrubs, Otterlo 6.IX.1989, HS.

**255 willmanni Van der Hammen, 1952**

Notaspis punctatus; Willmann 1931 [misidentification]  
Several records by Van der Hammen (1952) and RMNH; in *Mnium undulatum* at a steep slope of a stream, Döttekro, Winterswijk, 9.IV.1993, HS.

**Pseudochipteria Travé, 1960**

**256\* magna (Sellnick, 1928)**

Hilversumse Wasmeer, 22.VI.2000, HS.

**ORIBATELLIDAE**

**Ophidiotrichus Grandjean, 1953**

**257 tectus (Michael, 1884)**

Notaspis borussicus Sellnick, 1909  
Tectoribates connexus var. borussicus Sellnick, 1928 (sec. homonym)  
Joelia connexa var. borussica (Sellnick, 1928) (sec. homonym)  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH (sub *J. borussica*); Hackfort, Vorden, 1959, Minderman (1981); forest litter, Ugchelense Bos, 3.V.1994, HS.

**Oribatella Banks, 1895**

**258\* arctica littoralis Strenzke, 1950**

Several records from the seashore in RMNH; in grass litter, Texel, De Slufter, 7.II.1993, HS.

**259 berlesei Michael, 1898**

Several records by Zaitsev & Berg (2001).

**260 calcarata (C.L. Koch, 1835)**

Oribatella decumana Berlese, 1910  
Several records by Zaitsev & Berg (2001) and RMNH; moss on tree trunk, Ittervoort, Vijverbroek, 28.III.1993, HS.

**261 quadricornuta (Michael, 1880)**

Oribates flammula; Oudemans 1896 [misidentification]  
Oribatella calcarata; Willmann 1931 [misidentification]  
Several records by Van der Hammen (1952) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); litter of *Thuja*, Beekbergen, Nieuw Dennenlust, II.VII.1989, HS.

**262\* reticulata Berlese, 1916**

Oak forest, east of Nijmegen, 24.IX.1989, HS.

**263\* superbula (Berlese, 1904)**

Oribatella meridionalis Berlese, 1908  
Oribatella willmanni (Subias & Gil-Martin, 1995)  
Heerenveen, 18.VI.1979; Holwerd (FR), 20.VI.1979; Doetinchem, 23.VI.1980; Waterland (NH), 3.VII.1984; St. Odiliënberg (LI), 29.VI.1978, RMNH (sub *O. meridionalis*).

**GALUMNIDAE**

**Acrogalumna Grandjean, 1956**

**264 longipluma (Berlese, 1904)**

Oribates elimatus longiplumus Berlese, 1904  
Oribata setiformes Hall, 1911  
Galumna filata Oudemans, 1913  
Oribates elimatus; Oudemans 1896 [misidentification]  
Notaspis elimatus; Oudemans 1900 [misidentification]  
Several records by Van der Hammen (1952) and Zaitsev & Berg (2001); Huys te Linschoten (UT), 4.VI.1985 and more sub *G. longipluma*, RMNH; in *Mnium undulatum* at a steep slope of a stream, Döttekro, Winterswijk, 9.IV.1993, HS.

## Allogalumna Grandjean, 1936

### 265 *neerlandica* Van der Hammen, 1952

Texel (type locality), 7.V.1949, Van der Hammen (1952); Texel, 3.IV.1974, 1.I.1971 and 11.VI.1974; Meyendel (ZH), 21.I.1974; Slochteren, 21.VI.1984, RMNH; in *Rhytidiadelphus squarrosus* on sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.

## Galumna von Heyden, 1826

### 266 *alata* (Hermann, 1804)

Rockanje, 17.IX.1948, Van der Hammen (1952); Boetwetering, Windesheim, 6.II.2000, (Zaitsev & Berg 2001); Texel, Polder Eendracht, 1.VII.1971; Texel, Polder het Noorden, 13.IV.1972, RMNH; moss under *Sambucus*, Texel, Horsmeertjes, 6.II.1993, HS.

### 267 *lanceata* (Oudemans, 1900)

*Notaspis alatus*; Oudemans 1901 [misidentification]

*Galumna dorsalis*; Van der Drift 1950 [misidentification]

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; *Cirsio-Molinietum*, Zegveld, 22.VI.1992, HS.

### 268 *obvia* (Berlese, 1913)

*Galumna elimata*; Willmann 1931 [misidentification]

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; among litter, Texel, Mokbaai, 6.II.1993, HS.

## Pergalumna Grandjean, 1936

### 269 *nervosa* (Berlese, 1914)

*Galumna retalata* Oudemans, 1915

*Zetes nervosus* (Berlese, 1914)

Several records by Van der Hammen (1952) and RMNH; in moss, Winterswijk, Willink Weuste, 9.IV.1993, HS.

### 270\* *willmanni* (Zachvatkin, 1953)

*Galumna formicaria*; Willmann 1931 [misidentification]

Doetinchem, 23.VI.1980; Ravensbos (LI), 23.V.1982; Waterop (LI), 26.V.1982, RMNH (sub *G. formicarius*).

## Pilogalumna Grandjean, 1956

### 271\* *crassiclava* (Berlese, 1914)

*Galumna allifera* Oudemans, 1915

Wieringen (NH), 30.VIII.1983, Wrakelberg (LI), 23.VIII.1988, RMNH (sub *G. allifera*).

### 272 *tenuiclava* (Berlese, 1908)

*Galumna areolata* Willmann, 1923

*Galumna radiata* Sellnick, 1928

Several records by Van der Hammen (1952) and RMNH; litter of *Thuja*, Beekbergen, Nieuw Dennenlust, 17.VII.1989, HS.

## CERATOZETIDAE

## Ceratozetes Berlese, 1908

### 273 *gracilis* (Michael, 1884)

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); in *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

### 274 *mediocris* Berlese, 1908

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH.

### 275\* *parvulus* Sellnick, 1922

Several records in RMNH but probably all subfossil (from peat cores).

### 276\* *peritus* Grandjean, 1951

Adornispolder (ZE), 14.VII.1974, RMNH.

## Diapterobates Grandjean, 1936

### 277 *humeralis* (Hermann, 1804)

*Sphaerozetes* (*Trichoribates*) *numerosus*

Sellnick, 1924

*Oribates picipes* Hull, 1913

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); Veenendaal, Blauwe Hel, 31.VIII.1989, HS.

### Edwardzetes Berlese, 1914

#### 278 edwardsi (Nicolet, 1855)

Oribata edwardsi Nicolet, 1855

Maastricht, St. Pietersberg, 7.v.1949, Van der Hammen (1952); Winterswijk, Korenburgerveen, 2.vii.1975; Ubbergen, 27.vi.1980; Nijmegen, 20.iv.1974; Gerendal (LI), 5.v.1972; Ravensbos (LI), 27.v.1974, RMNH; in moss, Beuningen, Het Broek, 31.viii.1989, HS.

### Fuscozetes Sellnick, 1928

#### 279 fuscipes (C.L. Koch, 1844)

Galumna slossonae Banks, 1906

Fuscozetes rotundatus Willmann, 1930

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Mnium undulatum* at a steep slope of a stream, Dötterkrö, Winterswijk, 9.iv.1993, HS.

### Latilamellobates Shaldubina, 1971

#### 280 incisellus (Kramer, 1897)

Several records by Van der Hammen (1952) and RMNH; in *Rhytidiadelphus squarosus* on sand dunes, Horsmeertjes, Texel, 6.ii.1993, HS.

### Melanozetes Hull, 1916

#### 281 mollicomus (C.L. Koch, 1839)

Several records by Van der Hammen (1952) and RMNH; moss on soil, Mook, Helkuil, 23.viii.1989, HS.

### Trichoribates Berlese, 1910

#### 282 novus (Sellnick, 1928)

Oribata setosa; Michael 1884 [misidentification]

Trichoribates numerosa; Buitendijk 1945 [misidentification]

Several records by Van der Hammen (1952) and RMNH; lawn, Beekbergen, Nieuw Denne-lust, 24.x.1989, HS.

#### 283 trimaculatus (C.L. Koch, 1835)

Oribates setosus; Berlese 1887 [misidentification]

Sphaerozetes (Trichoribates) berleseii Jacot, 1929

Several records by Van der Hammen (1952) and RMNH; *Lolium*-grassland, Arnhem, Bakenbergseweg, 14.xi.1988, HS.

### HUMEROBATIDAE

### Humerobates Sellnick, 1928

#### 284 rostromellatus Grandjean, 1936

Oribates humeralis; Berlese 1883 [misidentification]

Oribata lapidaria; Michael 1884 [misidentification]

Oribates facula; Oudemans 1896 [misidentification]

Notaspis humeralis; Oudemans 1902 [misidentification]

Humerobates humeralis; Sellnick 1928 [misidentification]

Humerobates fungorum; Willmann 1931 [misidentification]

Banksinus arboreus rostromellatus Jacot, 1940

Several records by Van der Hammen (1952), Zaitsev & Berg (2001), RMNH and Noordijk & Berg (2001); on *Calluna vulgaris*, Terlet, 11.ix.1989, HS.

### ZETOMIMIDAE

### Heterozetes Willmann, 1917

#### 285 palustris Willmann, 1917

Doetinchem, Oudemans collection, Van der Hammen (1952); Hoge en Lage Mierde, De Utrecht (NB), 15.vi.1977; Groesbeek, De Bruuk, 10.vi.1988, RMNH; quagmire, Westbroekse Zodden, 29.vi.1992, HS.

### Zetomimus Hull, 1916

#### 286\* furcatus (Pearce & Warburton, 1905)

Quagmire, Westbroekse Zodden, 29.vi.1992, HS.



CHAMOBATIDAE

**Chamobates Hull, 1916**

**287 borealis (Trägårdh, 1902)**

*Notaspis cuspidata* var. *borealis* Trägårdh, 1902

*Chamobates incisus* Van der Hammen, 1952

*Chamobates schuetzi*; Sellnick 1929 [misidentification]

*Chamobates schuetzi*; Willmann 1931 [misidentification]

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Thuja* litter, Beekbergen, Nieuw Dommelust, 24.VII.1989, HS.

**288 cuspidatus (Michael, 1884)**

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; birchbrook, Zwilbroek, Eibergen, 9.IV.1993, HS.

**289\* pusillus (Berlese, 1895)**

Heerenveen, 18.VI.1979; Opsterland, 21.VI.1979; Denekamp, 30.V.1975; Vriezenveen, 1974; Treekerduinen (UT), 16.VIII.1983; Hoge en Lage Mierde, De Utrecht (NB), 15.VI.1977; Hilvarenbeek, 16.VI.1977; Epen, Bovenste Bos (LI), 16.IX.1951, RMNH; moss on soil, Mook, Helkuil, 23.VIII.1989, HS.

**290 schuetzi (Oudemans, 1902)**

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; on *Calluna vulgaris*, Terlet, II.IX.1989, HS.

**291 subglobulus (Oudemans, 1900)**

*Oribata lapidaria* Lucas, 1849

*Oribata omissa* Warburton & Pearce, 1905

Several records by Van der Hammen (1952) and RMNH (partly sub *C. lapidarius*); between *Mnium undulatum*, Haelen, Leudal, 8.X.1989, HS.

**Globozetes Sellnick, 1928**

**292\* longipilus Sellnick, 1928**

Winterswijk, Buskersbos, 2.VII.1975, RMNH; Deelerwoud, soil sample (depth 4.6 cm), 14.I.1988, HS.

**293\* tricuspidatus (Willmann, 1953)**

In *Mnium undulatum* at a steep slope of a stream, Dötterkrö, Winterswijk, 9.IV.1993, HS.

MYCOBATIDAE

**Minunthozetes Hull, 1916**

**294\* pseudofusiger (Schweizer, 1922)**

*Punctoribates atomus* Berlese, 1908 (spec. inquirendae)

Groesbeek, 8 and 10.VI.1988; Hoge en Lage Mierde, De Utrecht (NB), 15.VI.1977; Wrakelberg (LI), VI.1986; Platte Bos (LI), VI.1986, RMNH.

**295 semirufus (C.L. Koch, 1841)**

*Oribata fusigera* Michael, 1884

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); in *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

**Mycobates Hull, 1916**

**296 parmeliae (Michael, 1884)**

An old record from Nijkerk in the Oudemans collection (Van der Hammen 1952).

**Punctoribates Berlese, 1908**

**297\* hexogonus Berlese, 1908**

Ameland, Westergie, 19.X.1975; Texel, De Bol, 13.IV.1971; Wervershoof (NH), 30.VIII.1983; Broek in Waterland, 5.VI.1984; Goeree, Springergors, 21.IX.1973 and 15.VI.1974; Zuid-Beveland, Rilland, 28.VIII.1975; St.Philipsland, 28.VIII.1975; Tholen, Stavenisse, 2.XI.1974; Vleuten, VIII.1976; Nijmegen, Lankhorst, 20.V.1975; St.Odiliënberg (LI), 29.VI.1978; Melick, Herkenbosch, 27.VI.1978, RMNH.

**298 punctum (C.L. Koch, 1839)**

*Oribata avenifera* Michael, 1884

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); lawn, Beekbergen, Nieuw Dommelust, 24.X.1989, HS.

**299 sellnicki Willmann, 1928**

*Puncторibates bicornis* Sellnick, 1928

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in pond with *Sphagnum*, Beekbergen, Reeënberg, 19.VII.1989, HS.

**Zachvatkinibates Shaldybina, 1973**

**300\* quadrivertex (Halbert, 1920)**

Several records in RMNH from the seashore; in grass litter, Texel, De Slufter, 7.II.1993, HS.

**EUZETIDAE**

**Euzetes Berlese, 1908**

**301 globulus (Nicolet, 1855)**

*Carabodes nitens* Johnston, 1853  
*Oribates seminulum* Oudemans, 1896  
*Euzetes aterrimus* Sellnick, 1928

Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; Hackfort, Vorden, 1959, Minderman (1981); in *Mnium undulatum* at a steep slope of a stream, Döttekro, Winterswijk, 9.IV.1993, HS.

**HAPLOZETIDAE**

**Protoribates Berlese, 1908**

**302\* capucinus Berlese, 1908**

*Oribata oblonga* Ewing, 1909  
Maastricht, St. Pietersberg, 7.V.1949, Van der Hammen (1952); Oldematen (OV), 10.VI.1985, RMNH; Boerwetering, Windenheim, 6.II.2000, Zaitsev & Berg (2001); Colmont, Wrakelberg (LI), 23.XI.2008; Eijserheide (LI), 28.XI.2008; Bemelen, Bemerlerberg, 28.XI.2008, ALT.

**303\* lophotrichus (Berlese, 1904)**

Oldematen (OV), 11.VI.1985; Wrakelberg (LI), 23.VIII.1988, RMNH; grassland on peat soil, Zegveld (UT), 19.IV.2004, ALT.

**SCHELORIBATIDAE**

**Dometorina Grandjean, 1951**

**304 plantivaga (Berlese, 1895)**

*Oppia tibialis*; Berlese 1892 [misidentification]

An old record from Arnhem in the Oudemans collection, Neercanne, 7.V.1949, Van der Hammen (1952); Starnuman Bossen, Gaasterland, 24.IV.2000, Zaitsev & Berg (2001); Winterswijk, 1.VII.1975; Putberg (LI), VI.1986, RMNH; between *Mnium undulatum*, Haelen, Leudal, 8.X.1989, HS.

**Hemileius Berlese, 1908**

**305 initialis (Berlese, 1908)**

*Scheloribates confundatus* Sellnick, 1928  
*Hemileius translamellatus*; Karpinen 1974 [misidentification]

Several records by Van der Hammen (1952), RMNH (sub *Scheloribates confundatus*) and Zaitsev & Berg (2001); Hackfort, Vorden, 1959, Minderman (1981), in *Mnium* on border of a ditch, Beekbergen, Elsbosweg, 14.VII.1991, HS.

**Liebstadia Oudemans, 1906**

**306\* longior (Berlese, 1908)**

*Protoribates badensis* Sellnick, 1928  
Waterop (LI), VI.1986; Wrakelberg (LI), VI.1986, RMNH (indicated with cf.).

**307 similis (Michael, 1888)**

*Oribatula anomala* Hull, 1916  
*Protoribates silesius* Sellnick, 1925  
*Oribates pallidula*; Oudemans 1896 [misidentification]  
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Rhytidiadelphus squarrosus* on sand dunes, Horsmeertjes, Texel, 6.II.1993, HS.

**Scheloribates Berlese, 1908**

- 308 **laevigatus** (C.L. Koch, 1835)  
Oribata lucasi Nicolet, 1855  
Oribates fuscomaculata; Oudemans 1896  
[misidentification]  
Oribates michaeli Hull, 1914  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001), HS, ALT and RMNH.
- 309 **latipes** (C.L. Koch, 1844)  
Several records by Van der Hammen (1952)  
and RMNH; among litter, Texel, Mokbaai,  
6.II.1993, HS.
- 310 **pallidulus** (C.L. Koch, 1840)  
Several records by Van der Hammen (1952)  
and RMNH; moss under *Sambucus*, Texel,  
Horsmeertjes, 6.II.1993, HS.

**Siculobata Grandjean, 1953**

- 311 **leontycha** (Berlese, 1910)  
Oisterwijk in Oudemans collection, Van  
der Hammen (1952); Ameland, Nesserbos,  
28.VI.1972, RMNH.

**Topobates Grandjean, 1958**

- 312 **holsaticus** Weigmann, 1969  
Several records from the sea shore in the prov-  
ince of Zeeland (Polderman & de Vries 1978);  
Noordpolder (GR), 15.XII.1975; Texel, Het  
Noorden, 14.XII.1975, RMNH.

**ORIBATULIDAE**

**Oribatula Berlese, 1895**

- 313 **tibialis** (Nicolet, 1855)  
*Zygoribatula exilis*; Buitendijk 1945 [misi-  
dentification]  
*Zygoribatula venustus*; Buitendijk 1945 [misi-  
dentification]  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; Hackfort,  
Vorden, 1959, Minderman (1981); pine litter,  
Ysselstein (LI), 28.III.1993, HS.

**Phauloppia Berlese, 1908**

- 314 **lucorum** (C.L. Koch, 1841)  
*Oppia conformis* Berlese, 1895  
*Eremaeus schneideri* Oudemans, 1900  
*Eremaeus conjunctus* Oudemans, 1902  
*Oribata geniculatus* Willmann, 1931  
Several records by Van der Hammen (1952)  
and RMNH; moss on roof tiles, Hoog Soeren,  
4.VIII.1989, HS.

**Zygoribatula Berlese, 1916**

- 315\* **cognata** (Oudemans, 1902)  
*Zygoribatula diversa* Mihelcic, 1956  
Mook, De Diepen, 23.VIII.1989, ALT (speci-  
mens not stored).
- 316 **excavata** (Berlese, 1916)  
*Zygoribatula terricola* Van der Hammen,  
1952  
*Zygoribatula cognata*; Sellnick 1960 [misi-  
dentification]  
Valkeveen; Zeeburg; Maasland (typelocality),  
12.VIII.1949; Lekkerkerk, 29.X.1949, Van der  
Hammen (1952), RMNH, Oudemans collection.
- 317 **exilis** (Nicolet, 1855)  
Several records by Van der Hammen (1952),  
Zaitsev & Berg (2001) and RMNH; litter  
between *Equisetum hyemale*,  
Bekkendelle, Winterswijk, 9.IV.1993, HS.
- 318 **frisiae** (Oudemans, 1900)  
Several records by Van der Hammen (1952)  
and RMNH.

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## REFERENCES

- Balogh J. & P. Balogh 1992. Oribatid mites genera of the world 1-2. – Hungarian Natural History Museum, Budapest.
- Coddington J.A., G. Giribet, M.S. Harvey, L. Prendini & D.E. Walter 2004. Arachnida. – In: Cracraft, J. & M.J. Donahue (Eds.), *Assembling the Tree of Life*. Oxford University Press: 296-318.
- Hammen, L. van der 1952. The oribatei (Acari) of the Netherlands. – *Zoologische Verhandelingen* 17: 1-139.
- International Commission for Zoological Nomenclature 1999. International Code of Zoological Nomenclature, adopted by the xx General Assembly of the International Union of Biological Sciences. – Web edition, Int. Trust Zool. Nomen., London, [www.iczn.org/iczn/index.jsp](http://www.iczn.org/iczn/index.jsp).
- Krivolutsky D.A. (ed.) 1995. Oribatid mites: morphology, development, phylogeny, ecology, methods of study, model species *Nothrus palustris* C.L. Koch, 1839. – Nauka Publishers, Moscow. [in Russian]
- Luxton, M. 1996. Oribatid mites of the British Isles: A check-list and notes on biogeography (Acari: Oribatida). – *Journal for Natural History* 30: 803-822.
- Minderman, G. 1981. Bodemkundige en bosecologische gegevens van het eikenhakhoutbosje Hackfort in de gemeente Vorden. – Rijksinstituut voor Natuurbeheer, Arnhem. [4 delen]
- Niedbala, W. 2004. Fauna Europaea: Acariformes, Oribatida. – Fauna Europaea version 1.1, [www.faunaeur.org](http://www.faunaeur.org).
- Noordijk, J. & M. Berg 2001. De corticole fauna van platanen: 1. Arachniden (Arachnida: Araneae, Pseudoscorpiones, Acari). – *Nederlandse Faunistische Mededelingen* 15: 13-31.
- Oudemans A.C. 1896. List of Dutch Acari Latr. 1. Oribatei. Dug., with synonymical notes and other remarks. – *Tijdschrift voor Entomologie* 39: 53-65.
- Oudemans A.C. 1902. New list of Dutch Acari, 2. With remarks on known and descriptions of a new sub-family, new genera and species. – *Tijdschrift voor Entomologie* 45: 1-52.
- Polderman, P.J.G. 1974. The Oribatida (Acari) of saline areas in the western part of the Dutch Wadden Sea. – *Netherlands Journal of Sea Research* 8: 49-72.
- Polderman, P.J.G. 1977. *Scutovertex pilosetosus* nov. spec. from the Netherlands (Acarida, Oribatida). – *Entomologische Berichten* 37: 129-132.
- Polderman, P.J.G. & R. de Vries 1978. Notities over vier soorten mosmijten (Acarida: Oribatida), nieuw voor de Nederlandse fauna. – *Bijdragen Faunistiek Nederland* 5: 20-27.
- Schelvis, J. 1992. Mites and archaeozoology. General methods; applications to dutch sites. – Groningen University. [PhD-thesis]
- Subias, L.S. 2004. Listado sistemático, sinonímico y biogeográfico de los ácaros oribátidos (Acariformes, Oribatida) del mundo (1758-2002). – *Graellsia* 60 (número extraordinario): 3-305.
- Walter D.E. & H.C. Proctor 1999. Mites: Ecology, Evolution and Behaviour. – University of NSW Press, Sydney & CABI, Wallingford.
- Weigmann, G. 2006. Hornmilben (Oribatida). – Goecke & Evers, Keltern. [Die Tierwelt Deutschlands 76]
- Zaitsev, A & M.P. Berg 2001. Some preliminary distribution maps of oribatid mites of the Netherlands (Acari, Oribatida). – *Nederlandse Faunistische Mededelingen* 14: 79-102.

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## SUMMARY

### Een nieuwe naamlijst van de mosmijten van Nederland (Acari: Oribatida)

In dit artikel wordt een nieuwe naamlijst gepresenteerd van de mosmijten van Nederland. Voor dit eerste overzicht sinds Van der Hammen (1952) werd de literatuur en collecties bestudeerd. Het aantal bekende soorten werd bijna verdubbeld, tot 318 soorten, waarvan er hier 100 voor het eerst gepresenteerd worden.

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