

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

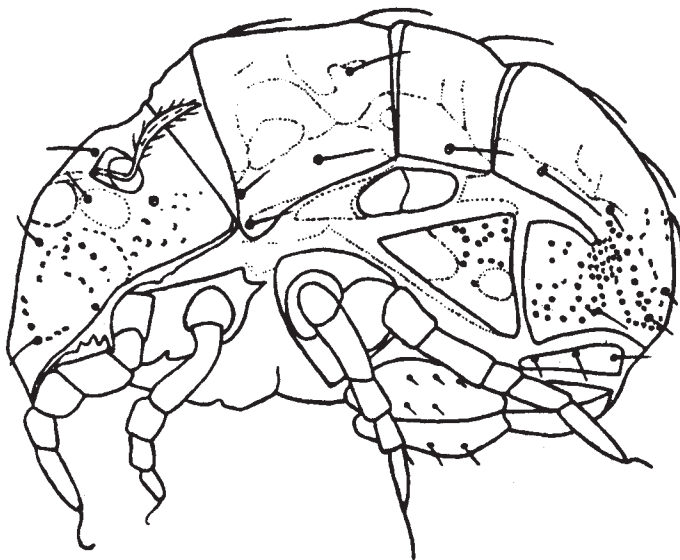


Figure 1. *Synchthonius crenulatus*.
Source: Van der Hammen (1952).
Figuur 1. *Synchthonius crenulatus*.
Bron: Van der Hammen (1952).

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 & Suci, 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 [misidentification]
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, Bekkendelle, 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, Zwillbroek, 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, Zwillbroek, 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, Zwillbroek, 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 Dannelust,
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
Liaccarus 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.

Odontocephus 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.

TECTOCEPHEIDAE**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**Quadroppia Jacot, 1939****164 bellula Luxton, 1987**

Several records by Zaitsev & Berg (2001).

165* maritialis 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 *Quadroppia* sp.

MACHUELLIDAE**Machuella Hammer, 1961****169 draconis Hammer, 1961**

Several records by Zaitsev & Berg (2001);
birchbrook, Zwilbroek, 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 (Golosoova, 1970)

Zwilbroek, 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 [misi-
dentification]

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); for-

est 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 *Rhytidia-delphus 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).

CYBBAEREMAEIDAE

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 Vogelduinen, 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. planicornis*); 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 [misidentification]
Several records by Van der Hammen (1952), Zaitsev & Berg (2001) and RMNH; in *Rhytidadelphus 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 [misidentification]

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, Minderman (1981); litter under *Ficaria verna*, Winterswijk, Bekkendelle, 9.IV.1993, HS.

247* **strenzei** (Knülle, 1954)

Quagnire, 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 *Rhytidadelphus 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.

Pseudachipteria 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, 11.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 *Rhytidadelphus 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* tricuspoidatus (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 parmelliae (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

Puncatoribates 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 Shalidybina, 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 *Rhytidadelphus squarosus* 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.

ACKNOWLEDGEMENTS

The authors are indebted to D.A. Krivolutsky for checking the identification of some of the species. Roy Kleukers has been so kind to provide the gross data of the Museum Naturalis Leiden to check and incorporate in this study. Special thanks to Nico M. van Straalen and H.R. Zoomer for some valuable comments concerning this manuscript. The research was done under the financial support of the project 'Biodiversity of soil cryptobiota' awarded by the Institute of Ecological Science, Vrije Universiteit, Amsterdam.

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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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