Checklist of terrestrial Parasitengona mites in Fennoscandia with new species- and distribution records (Acariformes: Prostigmata)

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Abstract

Background

The knowledge of terrestrial Parasitengona in Fennoscandia lies far behind that of their aquatic counterparts, the water mites (Hydrachnidia). Based on new inventories, we provide primary data and an annotated checklist of terrestrial Parasitengona in Fennoscandia including 107 species. Out of these, nineteen species are new findings for the region and five are species potentially new for science. Twenty-three species are new for Norway, fourteen for Finland and eleven for Sweden. The known recorded fauna today of terrestrial Parasitengona is 80 species for Norway, 54 for Sweden and 48 for Finland. Primary data include georeferenced locality data as well as collecting techniques and microhabitat to increase the knowledge on species' habitat requirements.

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Keywords

Distribution, metadata, GBIF, Norway, Sweden, Finland, chiggers, velvet mites, faunistics

Introduction

Parasitengona mites comprise two main ecological assemblages: the aquatic water mites (Hydrachnidia) and the terrestrial parasitengones (Trombidia; Figs 1, 2, 3, 4, 5, 6, 7, 8, 9). Together, the two groups form the monophyletic clade Parasitengona, characterised by their complex life cycle. Larvae of both aquatic and terrestrial lineages parasitise arthropods with few exceptions. The exceptions pertain to predatory or pollinivorous forms and the "chiggers", the vast majority of which have tetrapod vertebrates as hosts. The origin of water mites as either a sister group to, or being derived from within, terrestrial Parasitengona has been debated (Witte 1991, Welbourn 1991), but the latest evidence suggests a nested position of water mites (Dabert et al. 2016, Stålstedt 2017). There have been significant studies of water mites in Fennoscandia by Olov Lundblad, Sig Thor, Pauli Bagge and others (Thor 1897a, Thor 1897b, Thor 1899, Thor 1901, Lundblad 1927, Lundblad 1962, Lundblad 1968, Mehl 1979, Bagge and Bagge 2009, Stålstedt et al. 2013) and, at least in Sweden, the fauna is considered relatively well known. The terrestrial counterpart, Trombidia, however, has been largely ignored and the state of knowledge for the Fennoscandian fauna is very poor. However, in recent years the terrestrial parasitengones of Sogn og Fjordane in Norway (Mąkol and Gulvik 2002), as well as Finnish Erythraeoidea and Trombidiidae (Mąkol et al. 2006, Gabryś et al. 2009) have been studied. Several species known from larvae were recorded from Northern Europe by Haitlinger (2000) and Haitlinger (2008). In Sweden, there have been few studies in recent years. Gårdenfors et al. (2003) summarised the current state of knowledge of multicellular life in Sweden and reported twelve species of Trombidia. This is without doubt a vast underestimate as, for example, 142 species are known from Poland (Mąkol and Wohltmann 2012, Moniuszko and Mąkol 2014, Stålstedt et al. 2016, Mąkol and Korniluk 2017), which is perhaps the best studied country in Europe. Therefore, we here present an updated checklist for Fennoscandia, based on new inventories.

In the checklist, there are 107 species of terrestrial Parasitengona for Fennoscandia. Out of these, nineteen are new findings for the region and five are potential new species for science. In Norway, we present twenty species new for the country, plus three potentially undescribed species. In Sweden, there were nine species new for the country, plus two potentially undescribed species. In Finland, fourteen species were new findings for the country. This raises the known fauna to 80 species recorded for the Norwegian fauna, 54 for Sweden and 48 for Finland. In total, there are 499 records in the checklist, 383 of which are Norwegian.
Figure 1. \textit{Allothrombium} sp. Photo Anders Lindström.

Figure 2. \textit{Calyptostoma} sp. parasitised by larva of \textit{Johnstoniana} sp. Photo Joanna Mąkol.
Figure 3. *Erythraeus regalis*. Photo Joanna Mąkol.

Figure 4. *Johnstoniana* sp. Photo Joanna Mąkol.
Figure 5. *Leptus* sp. Photo Joanna Mąkol.

Figure 6. *Trombidium* sp. Photo John Hallmen.
Figure 7. *Leptotrombidium russicum*. Photo Joanna Mąkol.

Figure 8. *Platytrombidium fasciatum*. Photo Magdalena Felska.
Materials and methods

Terrestrial Parasitengona mites were collected between 1966 and 2013 at 131, 23 and 43 different localities in Norway (NOR), Sweden (SWE) and Finland (FIN), respectively. Some localities were visited on multiple occasions (different dates) and some geographical localities (same coordinates) contain multiple collecting events (different microhabitats or methods). Six counties were visited in Norway: Akershus, Buskerud, Hordaland, Oppland, Sogn og Fjordane and Vestfold. In Sweden, sampling took place in eight counties: Jönköping, Kalmar, Skåne, Stockholm, Södermanland, Uppsala, Värmland and Västerbotten. In Finland, seven counties were visited: Central Finland, North Karelia, Northern Ostrobothnia, Northern Savonia, Ostrobothnia, Southwest Finland and Åland Islands. Collectors were Ingvild Austad (IA), Agata Biallecka (AB), Jacek Długosz (JD), Magdalena Felska (MF), Maria E. Gulvik (MG), Kalervo Heikka (KH), Rasmus Hovmöller (RH), Ari Karhilahti (AKA), Andrzej Kaźmierski (AK), Małgorzata Kuty (MK), Seppo Koponen (SK), Joanna Łydanowicz (JŁ), Pekka T. Lehtinen (PTL), Joanna Mąkol (JM), Genowefa Mielnicka (GM), Ritva Niemi (RN), Veikko Rinne (VR), Anna Seniczak (AS), Piotr Skubała (PS), Sabina Słomian (SS), Sławomir Smoliński (SSM), Jeanette Stålstedt (JS), Monika Witkowska (MW) and the Swedish Malaise Trap Project (SMTP). The larva (L) or active postlarva (PL) (i.e. deutonymph (DN) or adult (AD)) were collected with Tullgren funnels (T), sweeping net (C), litter sifting net (S), Malaise trap (M), pitfall trap (P) or directly (U). The information on instars, known for particular species ([L] and/or [PL]), is provided after each species name. When available, each reported specimen is associated with the microhabitat of the collecting circumstances to increase the knowledge of species'
ecology and habitat requirements. Records are georeferenced with latitude and longitude coordinates in decimal degree format (WGS84) and altitude in metres, when available. Finnish collectors used a national uniform grid system (yhtenäiskoordinaatisto, YKJ) for mapping localities and this was converted into decimal degrees for the checklist. The locality records are downloadable as a csv file for easy creation of, for example, distribution maps with GIS tools. References to earlier records from Fennoscandia are provided in addition to new locality data. Taxa of uncertain identity (Trombiium russatum C.L. Koch, 1837, Trombidium procerum C.L. Koch, 1837, Trombidium hortense C.L. Koch, 1837, Trombidium corrugatum C.L. Koch, 1837, Trombidium assiratum C.L. Koch, 1837, Trombidium erythrellum C.L. Koch, 1837 and Rhyncholophus paludicola C.L. Koch, 1837), recorded by Andersén (1863) from Sweden, are not considered here due to their overall uncertain status followed by likely misidentifications. Each species is linked to the GBIF occurrence database. Under the distribution subheading, only the distribution in Fennoscandia is considered. Species, genus and family level taxonomy follows Mąkol and Wohltmann (2012) and Mąkol and Wohltmann (2013). The latter sources (Mąkol and Wohltmann 2012, Mąkol and Wohltmann 2013) also contain references to the original description of species, with the name in its original combination, author, date and page number of the description. Potential new species (or hitherto unknown instars) will be described elsewhere and are reported as "sp." here, with a note explaining the status. Species with only single occurrences in literature and without recent records in Fennoscandia are considered as questionable identifications.

Terrestrial Parasitengona

Superfamily Calyptostomoidea

Family Calyptostomatidae Oudemans, 1923

Calyptostoma velutinum (Müller, 1776) [PL, L]

- GBIF [http://www.gbif.org/species/4539742](http://www.gbif.org/species/4539742)

Materials

a. county: NOR-Hordaland; locality: In the vicinity of Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5492; decimalLongitude: 5.7344; samplingProtocol: T; eventDate: 24/06/2001; habitat: Soil, litter; recordNumber: 1 L; recordedBy: MG

b. county: NOR-Hordaland; locality: Blinde; verbatimElevation: 100; decimalLatitude: 60.4639; decimalLongitude: 5.3786; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, litter, soil; recordNumber: 2 L; recordedBy: MG

c. county: NOR-Hordaland; locality: Haukeland, in the vicinity of Bergen; verbatimElevation: 100; decimalLatitude: 60.3528; decimalLongitude: 5.4478; samplingProtocol: T; eventDate: 05/07/2004; habitat: Soil, humus, litter; recordNumber: 1 L; recordedBy: MG
d. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 22/08/2006; habitat: Soil, humus; recordNumber: 1 AD; recordedBy: MG, JL

e. county: NOR-Sogn og Fjordane; locality: Oppun; verbatimElevation: 320; decimalLatitude: 61.5000; decimalLongitude: 7.7203; samplingProtocol: T; eventDate: 10/08/2000; habitat: Moss, soil, herbaceous plants, at the base of Salix caprea; recordNumber: 1 L; recordedBy: MG, GM

f. county: NOR-Sogn og Fjordane; locality: Kaupanger; verbatimElevation: 200; decimalLatitude: 61.1942; decimalLongitude: 7.2192; samplingProtocol: T; eventDate: 15/08/2000; habitat: Bark and rot from tree trunk; recordNumber: 1 AD; recordedBy: MG

g. county: NOR-Sogn og Fjordane; locality: In the vicinity of Sognadal; verbatimElevation: 180; decimalLatitude: 61.2042; decimalLongitude: 7.1983; samplingProtocol: T; eventDate: 15/08/2000; habitat: Humic soil; recordNumber: 1 DN; recordedBy: MG

h. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG

i. county: NOR-Sogn og Fjordane; locality: In the vicinity of Borgund; verbatimElevation: 400; decimalLatitude: 61.0533; decimalLongitude: 7.8125; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG

j. county: NOR-Sogn og Fjordane; locality: Galdane; verbatimElevation: 300; decimalLatitude: 61.0611; decimalLongitude: 7.7278; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, moss, herbaceous plants; recordNumber: 1 DN; recordedBy: MG

k. county: NOR-Sogn og Fjordane; locality: Lærdalsøyri; verbatimElevation: 100; decimalLatitude: 61.0972; decimalLongitude: 7.4911; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, litter; recordNumber: 1 L; recordedBy: MG

l. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100; decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Soil at the base of decaying tree trunk, herbaceous plants; recordNumber: 2 AD, 1 L; recordedBy: MG, GM

m. county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3072; decimalLongitude: 7.3422; samplingProtocol: T; eventDate: 19/08/2001; habitat: Moss, soil; recordNumber: 2 DN; recordedBy: MG, GM

n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nyøstulen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, herbaceous plants; recordNumber: 1 AD; recordedBy: MG

o. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøybreen; verbatimElevation: 175; decimalLatitude: 61.4817; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss; recordNumber: 1 DN; recordedBy: MG

p. county: NOR-Sogn og Fjordane; locality: Feigum; verbatimElevation: 25; decimalLatitude: 61.3839; decimalLongitude: 7.4239; samplingProtocol: T; eventDate: 20/07/2003; habitat: Moss by the creek; recordNumber: 1 AD, 1 L; recordedBy: MG

q. county: NOR-Sogn og Fjordane; locality: Sognefjellet, in the vicinity of Turtagrø; verbatimElevation: 1 200; decimalLatitude: 61.5208; decimalLongitude: 7.8258; samplingProtocol: T; eventDate: 04/08/2003; habitat: Soil, moss, herbaceous plants; recordNumber: 3 AD; recordedBy: MG, MK
r. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 890;
decimalLatitude: 60.9700; decimalLongitude: 6.5025; samplingProtocol: T; eventDate:
05/07/2004; habitat: Moss by the creek; recordNumber: 2 L; recordedBy: MG, AS

d. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation:
600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate:
08/05/2005; habitat: Soil, litter, close to creek; recordNumber: 2 AD, 1 DN; recordedBy: MG

s. county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation:
600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate:
15/11/2005; habitat: Soil; recordNumber: 1 AD; recordedBy: MG

u. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun; verbatimElevation:
25; decimalLatitude: 61.4878; decimalLongitude: 7.6594; samplingProtocol: T; eventDate:
25/11/2005; habitat: Moss, soil; recordNumber: 2 AD, 28 L; recordedBy: MG

v. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation:
600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: U; eventDate:
01/07/2006; habitat: Soil, cow parsley, wood stitchwort, side of the road; recordNumber:
1 AD, 1 L; recordedBy: JŁ, MG

w. county: NOR-Vestfold; locality: Between Larvik and Kvelde; verbatimElevation: 400;
decimalLatitude: 61.4997; decimalLongitude: 7.7247; samplingProtocol: T; eventDate:
07/08/2006; habitat: Moss and humic soil, by the creek; recordNumber: 1 L; recordedBy: JŁ, MG

x. county: NOR-Vestfold; locality: Between Larvik and Kvelde; verbatimElevation: 25;
decimalLatitude: 59.1525; decimalLongitude: 10.0244; samplingProtocol: T; eventDate:
03/10/2002; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG

y. county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50;
decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate:
03/10/2002; habitat: Soil; recordNumber: 1 AD; recordedBy: MG

z. county: SWE-Kalmar; locality: Öland; verbatimElevation: 40; decimalLatitude: 16.5896;
decimalLongitude: 16.5986; samplingProtocol: S; eventDate: 12/08/2013; habitat: Detritus of leaves, sheep pasture with hazels near wetland; recordNumber: 2 PL; recordedBy: JS

aa. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10;
decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate:
10/09/2004 - 17/12/2004 (=Coll.ID 1563); habitat: Northern beach, elm grove; recordNumber: 2 L; recordedBy: SMTP

ab. county: SWE-Värmland; locality: Ransäter, Prästmyren; verbatimElevation: 115;
decimalLatitude: 59.7883; decimalLongitude: 13.4348; samplingProtocol: S; eventDate:
04/06/2013; habitat: Arable land, grass, fine sediment, near pine forest and smaller forest stream; recordNumber: 1 PL; recordedBy: JS, MF, RH

ac. county: SWE-Värmland; locality: Ransäter, Ransberg Herrgård; verbatimElevation:
110; decimalLatitude: 59.7903; decimalLongitude: 13.4160; samplingProtocol: U, S; eventDate:
05/06/2013; habitat: Moss, fern, mixed deciduous forest in stream ravine; recordNumber:
1 PL; recordedBy: JS, MF, RH

ad. county: SWE-Västerbotten; locality: Near Stora Tjulträsk; verbatimElevation: 600;
decimalLatitude: 65.9668; decimalLongitude: 16.0605; samplingProtocol: U; eventDate:
19/06/2013; habitat: Birch forest, slope; recordNumber: 4 PL; recordedBy: RH
P. T. L. Checklist of terrestrial Parasitengona mites in Fennoscandia with new species - ... 

ae. county: SWE-Västerbotten; locality: Stora Tjulträsk;verbatimElevation: 560;decimalLatitude: 65.9645;decimalLongitude: 16.0479;samplingProtocol: P;eventDate: 21/06/2013;habitat: Damp area, birch, juniper, next to brook draining into lake;recordNumber: 1 PL;recordedBy: RH

af. county: FIN-North Karelia; locality: Lieksa, Vuonisjärvi, Särkijoki;decimalLatitude: 63.2;decimalLongitude: 30.0;eventDate: 14/08/1997;habitat: Lakeshore bush;recordNumber: 1 PL;recordedBy: PTL

ag. county: FIN-North Karelia; locality: Ilomantsi, Kuikkalampi, Särkkä;decimalLatitude: 62.8;decimalLongitude: 30.9;eventDate: 15/08/1997;habitat: Lakeshore meadow, litter of aspen;recordNumber: 2 PL;recordedBy: JM, PTL

ah. county: FIN-North Karelia; locality: Tohmajärvi, Kemie, Kirkkoniemi,;decimalLatitude: 62.8;decimalLongitude: 30.9;eventDate: 15/08/1997;habitat: Deciduous forest with Rhamnus & alder;recordNumber: 6 PL;recordedBy: JM

ai. county: FIN-Northern Ostrobothnia; locality: Pyhäjärvi, Vesikoski;eventDate: 05/07/1966;habitat: Rocky slope;recordNumber: 1 PL;recordedBy: PTL

aj. county: FIN-Northern Ostrobothnia; locality: Kuusamo, Toranginjärvi;decimalLatitude: 66.2;decimalLongitude: 29.2;eventDate: 11/07/1966;habitat: Bog;recordNumber: 1 PL;recordedBy: PTL

ak. county: FIN-Northern Ostrobothnia; locality: Kuusamo, Liikasenvaara Sirkkapuro,;decimalLatitude: 66.2;decimalLongitude: 29.2;eventDate: 18/06/1985;habitat: In moss and litter of brook valley;recordNumber: 1 fem;recordedBy: PTL

al. county: FIN-Northern Ostrobothnia; locality: Lumijoki, Saarenperä;decimalLatitude: 64.9;decimalLongitude: 24.9;eventDate: 13/06/1987;habitat: Mixed forest, litter;recordNumber: 1 AD;recordedBy: PTL

am. county: FIN-Ostrobothnia; locality: Oravainen, Bodholm;decimalLatitude: 63.2;decimalLongitude: 22.2;samplingProtocol: P;eventDate: 22/07/1972 - 07/10/1972;habitat: Shore meadow;recordNumber: 1 PL;recordedBy: PTL

an. county: FIN-Ostrobothnia; locality: Uusikaarlepyy, Jepua, Lapuanjoki;decimalLatitude: 63.4;decimalLongitude: 22.6;samplingProtocol: P;eventDate: 22/07/1972 - 07/10/1972;recordNumber: 1 PL;recordedBy: PTL

ao. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos;decimalLatitude: 60.2;decimalLongitude: 22.1;eventDate: 13/06/1966;recordNumber: 1 AD, 1 DN;recordedBy: PTL

ap. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos;decimalLatitude: 60.2;decimalLongitude: 22.1;eventDate: 24/05/1967;recordNumber: 1 PL;recordedBy: PTL

aq. county: FIN-Southwest Finland; locality: Korppoo, Björkö;decimalLatitude: 59.9;decimalLongitude: 21.6;samplingProtocol: P;eventDate: 15/05/1968 - 16/07/1968;habitat: Maritime deciduous forest;recordNumber: 2 PL;recordedBy: PTL

ar. county: FIN-Southwest Finland; locality: Korppoo, Jurmo;decimalLatitude: 59.8;decimalLongitude: 21.5;samplingProtocol: P;eventDate: 16/05/1968 - 17/07/1968;habitat: High juniper stand far from the seashore;recordNumber: 1 PL;recordedBy: PTL

as. county: FIN-Southwest Finland; locality: Parainen, Kurckas;decimalLatitude: 60.2;decimalLongitude: 22.1;samplingProtocol: P;eventDate: 17/05/1968 - 05/07/1968;habitat: Meadow in spruce forest;recordNumber: 1 AD;recordedBy: PTL

at. county: FIN-Southwest Finland; locality: Uusikaupunki, Lyökki, Ukonkari;decimalLatitude: 60.8;decimalLongitude: 21.1;eventDate: 25/06/1968;habitat: Small bog;recordNumber: 1 PL;recordedBy: PTL
au. county: FIN-Southwest Finland; locality: Korppoo, Björkö; decimalLatitude: 59.9;
decimalLongitude: 21.6; samplingProtocol: P; eventDate: 16/07/1968 - 20/10/1968;
habitat: Base of rock; recordNumber: 1 PL; recordedBy: PTL

av. county: FIN-Southwest Finland; locality: Parainen, Kopparö; decimalLatitude: 59.8;
decimalLongitude: 21.5; samplingProtocol: P; eventDate: 29/06/1969 - 14/08/1969;
habitat: Bog; recordNumber: 1 DN, 1 PL; recordedBy: PTL

ax. county: FIN-Southwest Finland; locality: Korppoo, Lövskär, Hummelskär;
decimalLatitude: 60.1; decimalLongitude: 21.2; eventDate: 11/07/1982; habitat: Drifted
Fucus mixed with decaying Elymus; recordNumber: 1 AD; recordedBy: PTL

ay. county: FIN-Southwest Finland; locality: Kaarina, Karpanmäki; decimalLatitude: 60.3;
decimalLongitude: 22.3; samplingProtocol: P; eventDate: 09/05/1989 - 13/06/1989;
recordNumber: 1 PL; recordedBy: SK

az. county: FIN-Southwest Finland; locality: Kaarina, Karpanmäki; decimalLatitude: 60.3;
decimalLongitude: 22.3; samplingProtocol: P; eventDate: 13/06/1989 - 15/07/1989;
habitat: Oak forest; recordNumber: 1 PL; recordedBy: RN, VR

ba. county: FIN-Southwest Finland; locality: Turku, Kylämäki, Vähä-Rasi; decimalLatitude: 60.4;
decimalLongitude: 22.3; samplingProtocol: P; eventDate: 20/05/1990 - 28/08/1990; habitat: In cellar; recordNumber: 1 PL; recordedBy: RN, VR

bb. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1;
decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1990 - 23/07/1990;
habitat: Ash grove; recordNumber: 3 DN, 5 PL; recordedBy: KH, PTL

bc. county: FIN-Southwest Finland; locality: Nauvo, Berghamn, Boskär; decimalLatitude: 59.9;
decimalLongitude: 21.6; eventDate: 30/05/1990; habitat: Alnus grove, fungus;
recordNumber: 1 AD, 6 PL; recordedBy: PTL

bd. county: FIN-Southwest Finland; locality: Nauvo, Berghamn, Boskär; decimalLatitude: 59.9;
decimalLongitude: 21.6; samplingProtocol: P; eventDate: 30/05/1990 - 24/07/1990; habitat: Hazel slope and on the cliff; recordNumber: 5 PL; recordedBy: KH, PTL

be. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1;
decimalLongitude: 21.1; samplingProtocol: P; eventDate: 23/07/1990 - 12/09/1990;
habitat: Sandy dry meadow; recordNumber: 2 AD, 2 PL; recordedBy: KH, PTL, RN

bf. county: FIN-Southwest Finland; locality: Nauvo, Berghamn, Boskär; decimalLatitude: 59.9;
decimalLongitude: 21.6; samplingProtocol: P; eventDate: 24/07/1990 - 13/09/1990; habitat: Dry meadow; recordNumber: 1 PL; recordedBy: PTL

bg. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1;
decimalLongitude: 21.1; eventDate: 12/09/1990; habitat: Water avens in Alnus grove;
recordNumber: 1 PL; recordedBy: PTL

bh. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1;
decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1991 - 23/07/1991;
habitat: Ash grove with Fraxinus sp.; recordNumber: 1 AD, 1 PL; recordedBy: KH, PTL

bi. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1;
decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1992 - 23/07/1992;
habitat: Sandy meadow; recordNumber: 1 DN, 2 PL; recordedBy: KH, PTL

bj. county: FIN-Southwest Finland; locality: Nauvo, Sandö; decimalLatitude: 60.17;
decimalLongitude: 22.09; eventDate: 09/09/1992; habitat: Pondside mire with Calla,
Comarum, Carex spp.; recordNumber: 1 PL; recordedBy: PTL
bk. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1993 - 23/07/1993; habitat: Cultivated meadow; recordNumber: 1 DN, 3 PL; recordedBy: KH, PTL

bl. county: FIN-Southwest Finland; locality: Houtskari, Björkö; eventDate: 03/06/1994; habitat: Decaying fir; recordNumber: 1 PL; recordedBy: PTL

bm. county: FIN-Southwest Finland; locality: Parainen, Laplahti; decimalLatitude: 60.2; decimalLongitude: 21.9; eventDate: 06/08/1996; habitat: Moist deciduous forest; recordNumber: 2 PL, 1 L; recordedBy: PTL

bn. county: FIN-Southwest Finland; locality: Nauvo, Krok Storra Gunkobb; decimalLatitude: 60.08; decimalLongitude: 21.71; eventDate: 21/07/1997; habitat: At the base of Cochlearia danica; recordNumber: 1 PL; recordedBy: PTL

bo. county: FIN-Southwest Finland; locality: Sonkajärvi, Sukeva; decimalLatitude: 63.8; decimalLongitude: 27.4; eventDate: 12/08/1997; habitat: Grove (Salix sp., Alnus sp., Betula sp., grass) on the river shore; recordNumber: 1 DN; recordedBy: JM

bp. county: FIN-Southwest Finland; locality: Nauvo, Sydänperä; decimalLatitude: 60.17; decimalLongitude: 21.72; eventDate: 01/09/1997; habitat: Hazel bush close to seashore; recordNumber: 1 PL; recordedBy: JM

bq. county: FIN-Åland Islands; locality: Rymättylä, Alakylä, Isoluoto; decimalLatitude: 60.30; decimalLongitude: 21.97; eventDate: 04/09/1997; habitat: Litter of alder and decaying reed on seashore; recordNumber: 1 PL; recordedBy: SK

br. county: FIN-Åland Islands; locality: Åland, Mariehamn, Svinö; decimalLatitude: 60.1; decimalLongitude: 19.8; samplingProtocol: U; eventDate: 17/08/1997; habitat: Seashore and margin of deciduous forest; recordNumber: 1 PL; recordedBy: JM

Distribution: Norway (Thor 1900a, Måkol and Gulvik 2002), Sweden (Willmann 1943) and new for Finland.

Notes: This taxon may represent more than one species (Wohltmann et al. 1999). Trombidium expalpe Hermann, 1804 is a junior synonym (Oudemans 1929).

Superfamily Erythraeoidea

Family Erythraeidae Robineau-Desvoidy, 1828

Subfamily Abrolophinae Witte, 1995

Abrolophus artemisiae (Schrank, 1803) [PL]

- GBIF [http://www.gbif.org/species/4539829](http://www.gbif.org/species/4539829)

Materials

a. county: NOR-Sogn og Fjordane; locality: Hafslø; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 1 ♀, 11 ♂, 1 AD, 3 DN; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Hafslø; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 1 ♀, 9 DN; recordedBy: MG
c. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 2 ♂, 2 DN; recordedBy: MG
d. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 4 ♀; recordedBy: MG
e. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 2 ♀4 ♂; recordedBy: MG
f. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Sand and clayey soil, moss; recordNumber: 2 ♀2 ♂, 2 DN; recordedBy: MG

Distribution: Finland (Gabryś et al. 2009) and new for Norway.

**Abrolophus bohdani** (Haitlinger, 2003) [L]

Materials

a. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, soil, humus; recordNumber: 1 L; recordedBy: MG
b. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400; decimalLatitude: 61.5600; decimalLongitude: 7.9628; samplingProtocol: T; eventDate: 17/05/2003; habitat: Moss and lichens on rocks; recordNumber: 3 L; recordedBy: MG, SS
c. county: NOR-Sogn og Fjordane; locality: Rørvik; verbatimElevation: 500; decimalLatitude: 61.4047; decimalLongitude: 6.2178; samplingProtocol: T; eventDate: 04/07/2002; habitat: Moss, lichens and humus on rocks; recordNumber: 1 L; recordedBy: MG, PS, SS

Distribution: New for Norway.

**Abrolophus densipapillus** (Schweizer, 1951) [PL]

- GBIF [https://www.gbif.org/species/4539812](https://www.gbif.org/species/4539812)

Distribution: Sweden (Sellnick 1958).

Notes: Only single record in literature (Sellnick 1958) and no recent occurrences since then. Identification questionable.

**Abrolophus longicollis** (Oudemans, 1910) [L]

- GBIF [https://www.gbif.org/species/4539779](https://www.gbif.org/species/4539779)

Material

a. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100; decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate:
22/05/2001; habitat: Grass tussocks on stony beach, humic soil, herbaceous plants, moss; recordNumber: 21 L; recordedBy: JM

Distribution: Sweden (Sellnick 1958) and new for Norway.

**Abrolophus miniatus** (Hermann, 1804) [PL]

- GBIF [http://www.gbif.org/species/4539799](http://www.gbif.org/species/4539799)

**Materials**

- a. county: NOR-Buskerud; locality: Lerberg, in the vicinity of Hokksund; verbatimElevation: 100; decimalLatitude: 59.7772; decimalLongitude: 9.9244; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 ♀; recordedBy: MG

- b. county: NOR-Hordaland; locality: Evanger; verbatimElevation: 50; decimalLatitude: 60.6472; decimalLongitude: 6.1356; samplingProtocol: T; eventDate: 05/07/2004; habitat: Arable area covered with weeds, grass, humus with litter and moss; recordNumber: 1 ♀; recordedBy: MG, AS

- c. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 75; decimalLatitude: 60.6314; decimalLongitude: 8.2744; samplingProtocol: T; eventDate: 25/06/2005; habitat: Moss, decomposed bark, humus, at the base of elm tree; recordNumber: 1 DN; recordedBy: MG

- d. county: NOR-Oppland; locality: Sognfjellet; verbatimElevation: 1 400; decimalLatitude: 61.5600; decimalLongitude: 7.9628; samplingProtocol: T; eventDate: 17/05/2003; habitat: Lichens on rocks; recordNumber: 1 DN; recordedBy: MG, SS

- e. county: NOR-Oppland; locality: In the vicinity of Bøventun; verbatimElevation: 940; decimalLatitude: 61.6453; decimalLongitude: 8.1017; samplingProtocol: T; eventDate: 17/05/2003; habitat: Pasture at mountain wall, humus with herbaceous plants; recordNumber: 2 DN; recordedBy: MG, SS

- f. county: NOR-Sogn og Fjordane; locality: Hafsfjord; verbatimElevation: 300; decimalLatitude: 61.3314; decimalLongitude: 7.2144; samplingProtocol: T; eventDate: 25/05/2001; habitat: Soil, humus, undergrowth; recordNumber: 1 DN; recordedBy: MG, JM

- g. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Rock debris, litter and humus; recordNumber: 1 DN; recordedBy: MG

- h. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.4950; decimalLongitude: 7.5867; samplingProtocol: T; eventDate: 23/03/2005; habitat: Humus at decomposed tree trunk; recordNumber: 2 DN; recordedBy: MG

- i. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4972; decimalLongitude: 7.6108; samplingProtocol: U; eventDate: 06/07/2006; habitat: On rocks, under moss; recordNumber: 1 ♀; recordedBy: JL

- j. county: SWE-Stockholm; locality: Stockholm, Lappkärret; verbatimElevation: 20; decimalLatitude: 59.3678; decimalLongitude: 18.0694; samplingProtocol: S; eventDate: 21/08/2013, 23/08/2013; habitat: On small hill near lake, oak, maple, aspen, litter; recordNumber: 4 PL; recordedBy: JS
**Distribution:** Sweden (Trägårdh 1910, Sellnick 1958), Finland (Karppinen 1958, Gabryś et al. 2009) and new for Norway.

**Abrolophus norvegicus** (Thor, 1900) [PL, L]
- GBIF [http://www.gbif.org/species/4539827](http://www.gbif.org/species/4539827)

**Distribution:** Norway (Thor 1900a, Haitlinger 2000, Mąkol and Gulvik 2002), Sweden (Sellnick 1958) and Finland (Haitlinger 2000, Gabryś et al. 2009).

**Notes:** *Hauptmannia brevicollis* Oudemans, 1910 is a junior synonym (Łaydanowicz and Mąkol 2008).

**Abrolophus nymindegabicus** Haitlinger, 2008 [L]

**Distribution:** Sweden (Haitlinger 2008).

**Abrolophus quisquiliarus** (Hermann, 1804) [PL, L]
- GBIF [https://www.gbif.org/species/4539810](https://www.gbif.org/species/4539810)

**Materials**

a. county: NOR-Buskerud; locality: Noresund; verbatimElevation: 150; decimalLatitude: 60.1800; decimalLongitude: 9.6211; samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter; recordNumber: 1 DN; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5494; decimalLongitude: 6.4789; samplingProtocol: T; eventDate: 10/11/2000; habitat: Rot from decaying elm tree trunk; recordNumber: 1 ♂; recordedBy: MG, JD, SSM

c. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120; decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 13/11/2000; habitat: Rot from decaying elm trunk; recordNumber: 1 ♂; recordedBy: MG

d. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100; decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate: 22/05/2001; habitat: Grass tussocks on stony beach, humic soil with herbaceous plants and moss; recordNumber: 1 DN; recordedBy: JM

e. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 100; decimalLatitude: 61.2978; decimalLongitude: 7.3242; samplingProtocol: T; eventDate: 19/08/2001; habitat: Soil; recordNumber: 1 DN; recordedBy: MG, GM

f. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: On tree trunk of elm; recordNumber: 1 DN; recordedBy: MG

g. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120; decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 16/10/2001; habitat: Soil and litter, at the base of tree trunk; recordNumber: 1 DN; recordedBy: MG
Distribution: Sweden (Andersén 1863, Sellnick 1958), Finland (Gabryś et al. 2009) and new for Norway.

**Abrolophus rhopalicus** (C.L. Koch, 1837) [PL]

- GBIF [https://www.gbif.org/species/4539839](https://www.gbif.org/species/4539839)

**Materials**

a. county: NOR-Buskerud; locality: Hvila; verbatimElevation: 180; decimalLatitude: 59.7553; decimalLongitude: 9.5861; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil, humus; recordNumber: 1 ♂; recordedBy: MG

b. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400; decimalLatitude: 61.5647; decimalLongitude: 7.9947; samplingProtocol: T; eventDate: 22/06/2000; habitat: Thick layer of very moist humus with sand, moss on rocks, clayey–humic soil; recordNumber: 2 ♂, 1 DN; recordedBy: MG, AK

c. county: NOR-Sogn og Fjordane; locality: Hov, in the vicinity of Vik; verbatimElevation: 400; decimalLatitude: 61.3231; decimalLongitude: 6.2603; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, humus; recordNumber: 4 DN; recordedBy: MG, PS, SS

d. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Forest edge, bark and moss from the upper part of moraine; recordNumber: 1 ♂; recordedBy: MG, PS, SS

e. county: NOR-Sogn og Fjordane; locality: Rørvik; verbatimElevation: 500; decimalLatitude: 61.4047; decimalLongitude: 6.2178; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, lichens, humus; recordNumber: 1 ♂, 3 DN; recordedBy: MG, PS, SS

f. county: NOR-Sogn og Fjordane; locality: Sognefjellet, in the vicinity of Turtagrø; verbatimElevation: 1 200; decimalLatitude: 61.5208; decimalLongitude: 7.8258; samplingProtocol: T; eventDate: 04/08/2003; habitat: Moss, humus, vegetation, peat substratum; recordNumber: 1 ♂, 5 DN; recordedBy: MG, MK
Distribution: Sweden (Andersén 1863) and new for Norway.

**Abrolophus rubipes** (Berlese & Trouessart, 1889) [PL]

- GBIF [http://www.gbif.org/species/4539814](http://www.gbif.org/species/4539814)

Distribution: Sweden (Sellnick 1949).

Notes: No recent occurrences since the record of Sellnick (1949). Identification questionable.

**Abrolophus wratislaviensis** (Haitlinger, 1986) [L]

- GBIF [https://www.gbif.org/species/4539775](https://www.gbif.org/species/4539775)

Distribution: Norway (Haitlinger 2000) and Sweden (Haitlinger 2008).

**Abrolophus sp.**

Materials

a. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 100; decimalLatitude: 61.4642; decimalLongitude: 7.5303; samplingProtocol: T; eventDate: 14/03/2001; habitat: Moss, soil; recordNumber: 27 L; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Råum, in the vicinity of Gaupne; verbatimElevation: 100; decimalLatitude: 61.3894; decimalLongitude: 7.3406; samplingProtocol: T; eventDate: 11/04/2001; habitat: Moss and rot from decaying birch trunk; recordNumber: 7 L; recordedBy: MG

c. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: Bark, moss, lichens on decaying birch stumps, decaying raspberry shrubs; recordNumber: 18 L; recordedBy: MG, MW

Notes: Potential new species for science from Norway (or unknown instar of species already known from active postlarval forms).

Subfamily Balaustiinae Grandjean, 1947

**Balaustium murorum** (Hermann, 1804) [PL, L]

- GBIF [http://www.gbif.org/species/4336780](http://www.gbif.org/species/4336780)

Distribution: Sweden (Andersén 1863, Sellnick 1949) and Finland (Karppinen 1958, Gabryś et al. 2009).
Notes: *Rhyncholophus crocatus* C.L. Koch, 1837 is a junior synonym (Gabryś 2016).

*Balaustium nikae* Haitlinger, 1996 [L]

- GBIF [http://www.gbif.org/species/4539958](http://www.gbif.org/species/4539958)

Distribution: Sweden (Haitlinger 2008).

*Balaustium* sp.

Material

- county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 - 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 2 AD; recordedBy: SMTP

Notes: Potential new species for science from Sweden. Morphologically near *Balaustium araneoides* (Berlese, 1910).

Subfamily Callidosomatinae Southcott, 1957

*Charletonia cardinalis* (C.L. Koch, 1837) [PL, L]

- GBIF [http://www.gbif.org/species/4539871](http://www.gbif.org/species/4539871)

Materials

- county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 1 ♂, 2 ♀; recordedBy: JL
- county: SWE-Jönköping; locality: Shore of Lake Landsjön; verbatimElevation: 150; decimalLatitude: 57.8744; decimalLongitude: 14.2991; samplingProtocol: U, S; eventDate: 12/06/2013; habitat: Shore with mixed deciduous trees, *Aegopodium*, common reed, moss, bare soil; recordNumber: 1 DN; recordedBy: JS, MF, RH
- county: SWE-Kalmar; locality: Öland (=TrapID 22); verbatimElevation: 40; decimalLatitude: 56.6167; decimalLongitude: 16.5076; samplingProtocol: M; eventDate: 20/05/2005 - 01/06/2005 (=Coll.ID 1312); habitat: Meadow with bushes; recordNumber: 1 L; recordedBy: SMTP
- county: SWE-Stockholm; locality: Norrtälje, St. Dylanda; verbatimElevation: 35; decimalLatitude: 59.7078; decimalLongitude: 18.2332; samplingProtocol: U; eventDate: 18/06/2011; habitat: Exposed soil in patches, grass, litter, edge of forest and arable area; recordNumber: 1 L; recordedBy: JS

Distribution: Norway (Måkol and Gulvik 2002), Sweden (Andersén 1863, Southcott 1991) and Finland (Karppinen 1958 [as *Sphaerolophus globiger* Berlese, 1885, misidentification verified in Gabryś et al. 2009], Haitlinger 2000, Gabryś et al. 2009).
Notes: *Rhyncholophus principalis* C. L. Koch, 1837 is a junior synonym (Gabryś 2016).

*Charletonia globigera* (Berlese, 1885) [PL]

- GBIF [https://www.gbif.org/species/4539866](https://www.gbif.org/species/4539866)

  Distribution: Norway (Thor 1900a) and Sweden (Sellnick 1958).

Subfamily Erythraeinae Robineau-Desvoidy, 1828

*Curteria episcopalis* (C.L. Koch, 1837) [PL, L]

- GBIF [https://www.gbif.org/species/4539985](https://www.gbif.org/species/4539985)

  Material

  a. county: SWE-Stockholm; locality: Norrätje, Håtö; verbatimElevation: 25; decimalLatitude: 59.7100; decimalLongitude: 18.8904; eventDate: 24/06/2011; habitat: Open field, weekend cottage, rocks; recordNumber: 1 AD; recordedBy: JS

  Distribution: Sweden (Andersén 1863, Stålstedt et al. 2016) and Finland (Gabryś et al. 2009).

*Erythraeus adpendiculatus* (Schrank, 1781) [PL]

- GBIF [https://www.gbif.org/species/9193106](https://www.gbif.org/species/9193106)

  Material

  a. county: SWE-Västerbotten; locality: Kulbäcksliden experimental forest (=TrapID 57); verbatimElevation: 295; decimalLatitude: 64.1545; decimalLongitude: 19.5932; eventDate: 02/12/2003 - 18/06/2004 (=Coll.ID 751); habitat: 15 yr old spruce plantation, blueberry spruce forest; recordNumber: 4 L; recordedBy: SMTP

  Distribution: Finland (Karppinen 1958, Gabryś et al. 2009) and new for Sweden.

*Erythraeus cinereus* (Dugès, 1834) [PL, L]

- GBIF [http://www.gbif.org/species/6919397](http://www.gbif.org/species/6919397)

  Materials

  a. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430; decimalLatitude: 61.5600; decimalLongitude: 7.9681; eventDate: 02/09/2000; habitat: Soil, moss, vegetation; recordNumber: 2 DN; recordedBy: MG, GM

  b. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 300; decimalLatitude: 61.5600; decimalLongitude: 8.0014; eventDate: 20/08/2006; habitat: Moss, litter; recordNumber: 3 DN; recordedBy: MG, JL
c. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of jøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Rot from decaying trunk; recordNumber: 1 ♂; recordedBy: MG

d. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss from decaying trunk; recordNumber: 1 DN; recordedBy: MG

e. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 48 DN; recordedBy: MG

f. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

g. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

h. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 2 DN; recordedBy: MG

i. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: U; eventDate: 01/07/2006; habitat: Forest edge with numerous ant-hills, moss covered rock debris; recordNumber: 1 ♂; recordedBy: JŁ, MG

j. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U, C; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 1 ♂, 1 DN; recordedBy: JŁ

k. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4972; decimalLongitude: 7.6108; samplingProtocol: C (collected as larva); eventDate: 06/07/2006; habitat: On rocks, under moss; recordNumber: 1 DN; recordedBy: JŁ

l. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.5000; decimalLongitude: 7.6017; samplingProtocol: U; eventDate: 04/09/2007; habitat: Slope near road and birch forest, relatively moist grass, moss, soil; recordNumber: 6 ♂; recordedBy: JŁ

m. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 17/09/2007; habitat: Slope near road, very moist grass and moss; recordNumber: 3 DN; recordedBy: JŁ

n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 05/10/2007; habitat: Slope near road, very moist grass and moss; recordNumber: 1 DN; recordedBy: JŁ

o. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.5000; decimalLongitude: 7.6017; samplingProtocol: U; eventDate: 05/10/2007; habitat: Slope near road and birch forest, relatively moist grass, moss, soil; recordNumber: 5 ♂, 15 ♂, 8 DN; recordedBy: JŁ

p. county: SWE-Stockholm; locality: Stockholm, Lappkärret; verbatimElevation: 20; decimalLatitude: 59.3678; decimalLongitude: 18.0694; samplingProtocol: S;
Distribution: Sweden (Haitlinger 2008, Stålstedt et al. 2016), Finland (Gabryś et al. 2009) and new for Norway.

Notes: Erythraeus jowitae Haitlinger, 1987 is a junior synonym (Stålstedt et al. 2016).

Erythraeus kresnensis Beron, 1982 [L]

- GBIF http://www.gbif.org/species/6919386

Materials

a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 8 L; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 L; recordedBy: MG

Distribution: New for Norway.

Erythraeus monikae Haitlinger, 1987 [L]

- GBIF http://www.gbif.org/species/6919400

Material

a. county: SWE-Stockholm; locality: Svartlöga, Matkrok (=TrapID 26); verbatimElevation: 10; decimalLatitude: 59.5695; decimalLongitude: 19.05299; samplingProtocol: M; eventDate: 15/07/2004 - 28/07/2004 (=Coll.ID 1681); habitat: Maritime deciduous wood, small island; recordNumber: 1 L; recordedBy: SMTP

Distribution: Finland (Haitlinger 2000) and new for Sweden.

Erythraeus nivalis (Heer, 1845) [PL]

- GBIF https://www.gbif.org/species/101078909

Distribution: Sweden (Trägårdh 1902).

Notes: Rhyncholophus intermedius Trägårdh, 1902 is a junior synonym (Gabryś 2016).

Erythraeus opilionoides (C.L. Koch, 1837) [PL]

- GBIF http://www.gbif.org/species/6919409

Distribution: Norway (Thor 1900a).
Notes: Only single record in literature (Thor 1900a) and no recent occurrences since then. Identification questionable.

_Erythraeus phalangoides_ (De Geer, 1778) [PL, L]

- GBIF [http://www.gbif.org/species/8382687](http://www.gbif.org/species/8382687)

Material

a. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder and roots covered with moss; recordNumber: 2 ♂; recordedBy: JL

Distribution: Norway (Oudemans 1927), Sweden (de Geer 1778, Andersén 1863, Trägårdh 1904, Sellnick 1949) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: _Rhyncholophus arenicola_ Andersén, 1863 and _Bochartia adrastus_ Southcott, 1961 are junior synonyms (Gabryś 2016, Stålstedt et al. 2016).

_Erythraeus regalis_ (C.L. Koch, 1837) [PL, L]

- GBIF [http://www.gbif.org/species/6919388](http://www.gbif.org/species/6919388)

Materials

a. county: NOR-Sogn og Fjordane; locality: Nystølen; verbatimElevation: 700; decimalLatitude: 61.3436; decimalLongitude: 6.4564; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, humus, moss; recordNumber: 1 L; recordedBy: MG, PS, SS

b. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 200 L; recordedBy: MG

c. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 2 L; recordedBy: MG

d. county: NOR-Sogn og Fjordane; locality: Between Luster and Skjolden; verbatimElevation: 100; decimalLatitude: 61.4811; decimalLongitude: 7.5639; samplingProtocol: C; eventDate: 01/07/2006; habitat: Tussock grass and polypody meadow, close to hazel forest, bushes by the stream; recordNumber: 1 L; recordedBy: MG, JL

e. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: C; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 2 L; recordedBy: JL

f. county: SWE-Stockholm; locality: Svartlöga, Matkrok (=TrapID 26); verbatimElevation: 11; decimalLatitude: 59.5695; decimalLongitude: 19.05300; samplingProtocol: M; eventDate: 15/07/2004 - 28/07/2004 (=Coll.ID 1681); habitat: Maritime deciduous wood, small island; recordNumber: 1 L; recordedBy: SMTP
**Distribution:** Norway (Thor 1900a, Haitlinger 2000, Måkol and Gulvik 2002), Sweden (Sellnick 1958, Sömermaa 1973, Stålstedt et al. 2016) and Finland (Karppinen 1958, Gabryś et al. 2009).

**Notes:** *Bochartia kuyperi* Oudemans, 1910 and *Erythraeus gertrudae* Haitlinger, 1987 are junior synonyms (Stålstedt et al. 2016).

**Erythraeus rupestris** (L., 1758) [PL]

- **GBIF** [https://www.gbif.org/species/8807161](https://www.gbif.org/species/8807161)

**Distribution:** Sweden (Linnaeus 1758, Andersén 1863) and Finland (Karppinen 1958, Gabryś et al. 2009).

**Notes:** *Rhyncholophus imperialis* C. L. Koch, 1837 is a junior synonym (Oudemans 1937).

**Kamertonia polonica** Gabryś, 2000 [PL]

- **GBIF** [http://www.gbif.org/species/4539974](http://www.gbif.org/species/4539974)

**Distribution:** Finland (Gabryś et al. 2009, Roland and Gabryś 2013).

**Subfamily Leptinae** Billberg, 1820

**Leptus coccineus** (Scopoli, 1763) [L]

- **GBIF** [http://www.gbif.org/species/6919456](http://www.gbif.org/species/6919456)

**Distribution:** Norway (Oudemans 1927).

**Notes:** Only single record in literature (Oudemans 1927) and no recent occurrences since then. Identification questionable.

**Leptus laplandicus** Southcott, 1992 [L]

- **GBIF** [http://www.gbif.org/species/6919562](http://www.gbif.org/species/6919562)

**Distribution:** Sweden (Southcott 1992).

**Notes:** Species described by Southcott (1992) from material collected by I. Trägårdh in 1907, in Sarek, Swedish Lappland.

**Leptus longipilis** (Bérlese, 1910) [PL]

- **GBIF** [http://www.gbif.org/species/6919538](http://www.gbif.org/species/6919538)
Distribution: Finland (Gabryš et al. 2009).

**Leptus mariae** Haitlinger, 1987 [L]

- GBIF [http://www.gbif.org/species/6919566](http://www.gbif.org/species/6919566)

**Materials**

- a. county: SWE-Skåne; locality: Stenshuvud national park, Krivarboden (=TrapID 39); verbatimElevation: 30; decimalLatitude: 55.6603; decimalLongitude: 14.2755; samplingProtocol: M; eventDate: 25/07/2003 - 08/08/2003 (=Coll.ID 603); habitat: Broad-leaved deciduous forest; recordNumber: 1 L; recordedBy: SMTP
- b. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 - 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 5 L; recordedBy: SMTP
- c. county: SWE-Värmland; locality: Ransäter, Rudstorp (=TrapID 1002); verbatimElevation: 85; decimalLatitude: 59.7730; decimalLongitude: 13.4737; samplingProtocol: M; eventDate: 07/07/2005 - 15/07/2005 (=Coll.ID 1375); habitat: Sandy railway embankment through pasture-land; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Haitlinger 2000) and Sweden (Haitlinger 2008).

**Leptus molochinus** (C. L. Koch, 1837) [PL, L]

- GBIF [https://www.gbif.org/species/8912762](https://www.gbif.org/species/8912762)

**Materials**

- a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 43 L; recordedBy: MG
- b. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 ♀, 4 L; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 100; decimalLatitude: 61.4964; decimalLongitude: 7.6106; samplingProtocol: T; eventDate: 28/04/2004; habitat: Meadow with concrete walls, herbaceous plants, moss on stony bedrock; recordNumber: 1 DN; recordedBy: MG, MW
- d. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U (4 L), C (2 L); eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 6 L; recordedBy: JŁ
- e. county: SWE-Stockholm; locality: Stockholm, Lappkärret; verbatimElevation: 20; decimalLatitude: 59.3678; decimalLongitude: 18.0694; samplingProtocol: S; eventDate: 21/08/2013, 23/08/2013; habitat: On small hill near lake, oak, maple, aspen, litter; recordNumber: 4 PL; recordedBy: JS
- f. county: SWE-Södermanland; locality: Trosa, Hunga Södergård (=TrapID 12); verbatimElevation: 20; decimalLatitude: 58.9207; decimalLongitude: 17.5212;
samplingProtocol: M; eventDate: 20/07/2003 - 02/08/2003 (=Coll.ID 175); habitat: Tall grass close to pile of manure behind stable; recordNumber: 2 L; recordedBy: SMTP
g. county: SWE-Södermanland; locality: Trosa, Hunga Södergård (=TrapID 12); verbatimElevation: 20; decimalLatitude: 58.9207; decimalLongitude: 17.5212; samplingProtocol: M; eventDate: 25/08/2003 - 19/09/2003 (=Coll.ID 178); habitat: Tall grass close to pile of manure behind stable; recordNumber: 1 L; recordedBy: SMTP
h. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 - 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 1 L; recordedBy: SMTP
i. county: SWE-Västerbotten; locality: Kulbäcksängarna (=TrapID 54); verbatimElevation: 155; decimalLatitude: 64.1902; decimalLongitude: 19.6057; samplingProtocol: M; eventDate: 05/08/2004 - 20/08/2004 (=Coll.ID 1254); habitat: Birch wood on fine alluvial sediments; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Mąkol and Gulvik 2002), Sweden (Andersén 1863, Oudemans 1912, Sellnick 1958) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: Erythraeus ignotus Oudemans, 1903 is a junior synonym (Łaydanowicz and Mąkol 2008).

Leptus phalangii (De Geer, 1778) [PL, L]

- GBIF https://www.gbif.org/species/9042332

Materials

a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Litter; recordNumber: 2 ♀; recordedBy: MG
b. county: NOR-Buskerud; locality: Kleftefoss; verbatimElevation: 150; decimalLatitude: 60.0886; decimalLongitude: 9.8336; samplingProtocol: T; eventDate: 26/08/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
c. county: NOR-Buskerud; locality: In the vicinity of Bromma; verbatimElevation: 150; decimalLatitude: 60.4883; decimalLongitude: 9.1839; samplingProtocol: T; eventDate: 07/06/2001; habitat: Humus, litter, undergrowth; recordNumber: 1 DN; recordedBy: MG
d. county: NOR-Hordaland; locality: Between Bulken and Rekve; verbatimElevation: 60; decimalLatitude: 60.6275; decimalLongitude: 6.2961; samplingProtocol: T; eventDate: 24/06/2001; habitat: Moss and rot from decaying birch tree trunk; recordNumber: 1 DN; recordedBy: MG
e. county: NOR-Hordaland; locality: Sandviki; verbatimElevation: 50; decimalLatitude: 60.4567; decimalLongitude: 5.6786; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss, humus; recordNumber: 1 ♀; recordedBy: MG
f. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 05/07/2004; habitat: Litter and humus on bedrock at the foot of mountains; recordNumber: 1 DN; recordedBy: MG
g. county: NOR-Sogn og Fjordane; locality: Kaupanger; verbatimElevation: 200; decimalLatitude: 61.1942; decimalLongitude: 7.2192; samplingProtocol: T; eventDate: 26/07/2003; habitat: ...
15/08/2000; habitat: Rot from decaying tree trunk; recordNumber: 1 DN; recordedBy: MG

h. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 150; decimalLatitude: 61.4811; decimalLongitude: 6.7419; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG

i. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Rot from the inside of decaying elm tree; recordNumber: 1 DN; recordedBy: MG

j. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 4 DN; recordedBy: MG

k. county: NOR-Sogn og Fjordane; locality: Ytredalen, in the vicinity of Vadheim; verbatimElevation: 100; decimalLatitude: 61.3403; decimalLongitude: 5.8225; samplingProtocol: T; eventDate: 31/07/2001; habitat: Soil at the base of elm trunk; recordNumber: 1 DN; recordedBy: MG, GM

l. county: NOR-Sogn og Fjordane; locality: Kroken; verbatimElevation: 50; decimalLatitude: 61.3403; decimalLongitude: 7.3967; samplingProtocol: T; eventDate: 19/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 1 ♀; recordedBy: MG, GM

m. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 ♀; recordedBy: MG

n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 ♀; recordedBy: MG

o. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Litter; recordNumber: 1 ♀; recordedBy: MG

p. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 980; decimalLatitude: 60.9964; decimalLongitude: 6.5461; samplingProtocol: T; eventDate: 23/09/2001; habitat: Litter; recordNumber: 3 DN; recordedBy: MG

q. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: U; eventDate: 08/05/2002; habitat: Litter; recordNumber: 1 ♀; recordedBy: MG

r. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot from the inside of decaying alder tree; recordNumber: 1 DN; recordedBy: MG, GM

s. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4972; decimalLongitude: 7.6108; samplingProtocol: U; eventDate: 10/07/2006; habitat: Slope near road, on rocks, under moss; recordNumber: 4 L; recordedBy: JL
Distribution: Norway (Buitendijk 1945, Haitlinger 2000, Mażkol and Gulvik 2002), Sweden (de Geer 1778) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: *Rhyncholophus nemorum* C.L. Koch, 1836 and *Leptus beroni* Fain, 1991 are junior synonyms (Mażkol et al. 2011).

**Leptus plumosus** (Thor, 1900) [PL]

- **GBIF** [https://www.gbif.org/species/8566707](https://www.gbif.org/species/8566707)

Distribution: Norway (Thor 1900a).

Notes: Regarded by Beron (2008) as *species inquirenda*.
**Leptus rubricatus** (C.L. Koch, 1837) [PL]

- GBIF [https://www.gbif.org/species/9182680](https://www.gbif.org/species/9182680)

  Distribution: Sweden (Andersén 1863) and Finland (Gabryś et al. 2009).

**Leptus sigthori** (Oudemans, 1913) [PL]

- GBIF [http://www.gbif.org/species/8057633](http://www.gbif.org/species/8057633)

  Distribution: Sweden (Sellnick 1949).

  Notes: Only single record in literature (Sellnick 1949) and no recent occurrences since then. Identification questionable.

**Leptus slivovi** Beron, 1975 [L]

- GBIF [http://www.gbif.org/species/6919464](http://www.gbif.org/species/6919464)

  Distribution: Norway (Southcott 1992).

**Leptus trimaculatus** (Rossi, 1794) [PL, L]

- GBIF [http://www.gbif.org/species/6919458](http://www.gbif.org/species/6919458)

  Materials

  a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 1 ♀, 8 AD, 32 DN; recordedBy: MG

  b. county: NOR-Sogn og Fjordane; locality: In the vicinity of Kroken; verbatimElevation: 50; decimalLatitude: 61.3464; decimalLongitude: 7.3981; samplingProtocol: T; eventDate: 20/07/2003; habitat: Soil, moss; recordNumber: 1 DN, 1 L; recordedBy: MG

  c. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 5 ♀, 1 ♂, 9 AD, 8 DN, 22 L; recordedBy: MG

  d. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 ♀, 2 ♂, 3 AD, 17 DN, 5 L; recordedBy: MG

  e. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 2 ♀, 2 ♂, 1 DN, 3 AD; recordedBy: MG

  f. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 1 ♀, 6 DN, 2 AD; recordedBy: MG
Distribution: Norway (Thor 1900a), Sweden (Andersén 1863, Haitlinger 2008) and Finland (Karppinen 1958, Gabryś et al. 2009).

*Leptus vertex* (Kramer, 1886) [PL]

- GBIF [http://www.gbif.org/species/6919564](http://www.gbif.org/species/6919564)

Materials

a. county: NOR-Buskerud; locality: Uvdal, in the vicinity of Rødberg; verbatimElevation: 500; decimalLatitude: 60.2656; decimalLongitude: 8.8014; samplingProtocol: T; eventDate: 30/09/2002; habitat: Litter, lichens, humus; recordNumber: 1 DN; recordedBy: MG

b. county: NOR-Oppland; locality: In the vicinity of Bøvertun; verbatimElevation: 940; decimalLatitude: 61.6453; decimalLongitude: 8.1017; samplingProtocol: T; eventDate: 17/05/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG, SS

c. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 1 ♀, 2 ♂; recordedBy: JL

Distribution: Norway (Thor 1900a), Sweden (Trägårdh 1910) and Finland (Gabryś et al. 2009).

Family Smarididae Vitzthum, 1929

Subfamily Hirstiosomatinae Southcott, 1946

*Hirstiosoma ampulligera* (Berlese, 1887) [PL, L]

- GBIF [http://www.gbif.org/species/4539748](http://www.gbif.org/species/4539748)

Distribution: Norway (Thor 1900a).

Notes: Only single record in literature (Thor 1900a) and no recent occurrences since then. Identification questionable.
*Hirstiosoma latreillei* (Grandjean, 1947) [PL, L]

- GBIF [http://www.gbif.org/species/4539747](http://www.gbif.org/species/4539747)

**Materials**

a. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 100; decimalLatitude: 61.2978; decimalLongitude: 7.3242; samplingProtocol: T; eventDate: 19/08/2001; habitat: Litter; recordNumber: 1 AD, 1 DN, 1 L; recordedBy: MG, GM

b. county: NOR-Sogn og Fjordane; locality: Hella; verbatimElevation: 100; decimalLatitude: 61.2083; decimalLongitude: 6.5975; samplingProtocol: T; eventDate: 23/09/2001; habitat: Litter; recordNumber: 1 AD; recordedBy: MG

c. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: By the river, near boulder covered with moss, ant-hill; recordNumber: 1 AD; recordedBy: JL

d. county: NOR-Sogn og Fjordane; locality: Selja; verbatimElevation: 25; decimalLatitude: 62.0475; decimalLongitude: 5.3133; samplingProtocol: T; eventDate: 06/08/2006; habitat: Moss on rocks; recordNumber: 1 L; recordedBy: MG, JL

e. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: Decomposed bark at the base of birch; recordNumber: 1 DN; recordedBy: MG, MW

**Distribution:** Finland (Gabryś et al. 2009) and new for Norway.

**Superfamily Trombidioidae**

**Family Johnstonianidae** Thor, 1935

**Subfamily Johnstonianinae** Thor, 1935

*Centrotrombidium schneideri* Kramer, 1896 [PL, L]

- GBIF [http://www.gbif.org/species/4540947](http://www.gbif.org/species/4540947)

**Distribution:** Norway (Oudemans 1927).

**Notes:** Only single record in literature (Oudemans 1927) and no recent occurrences since then.

**Diplothrombium longipalpe** (Berlese, 1887) [PL, L]

- GBIF [http://www.gbif.org/species/4540943](http://www.gbif.org/species/4540943)
Materials

a. county: FIN-Southwest Finland; locality: Korppoo, Jurmo; decimalLatitude: 59.8; decimalLongitude: 21.5; samplingProtocol: P; eventDate: 29/06/1969 - 14/08/1969; habitat: bog; recordNumber: 1 PL; recordedBy: PTL

b. county: FIN-Southwest Finland; locality: Parainen, Lapplahti, Kalastajakopinranta; decimalLatitude: 60.2; decimalLongitude: 21.9; samplingProtocol: P; eventDate: 06/07/1966 - 13/10/1966; habitat: moist spruce forest with ferns; recordNumber: 1 PL; recordedBy: PTL

c. county: FIN-Southwest Finland; locality: Tarvasjoki, Eurankylä; decimalLatitude: 60.6; decimalLongitude: 22.7; samplingProtocol: P; eventDate: 13/07/1969 - 03/08/1969; habitat: bog; recordNumber: 1 PL; recordedBy: PS. Kännö

d. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 1 ♀, 1 AD; recordedBy: MG

Distribution: Norway (Wohltmann et al. 2004) and new for Finland.

**Diplothrombium rackae** Wohltmann, Mąkol & Gabryś, 2004 [L]

Material

a. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 5 L; recordedBy: MG

Distribution: New for Norway.

**Diplothrombium zbigniewi** Haitlinger, 2001 [L]

- GBIF [http://www.gbif.org/species/4540937](http://www.gbif.org/species/4540937)

Materials

a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Moss, litter, soil from small peatbog; recordNumber: 1 L; recordedBy: MG

b. county: NOR-Buskerud; locality: Near Hostvet, at the level of Lande; verbatimElevation: 80; decimalLatitude: 59.6083; decimalLongitude: 9.7425; samplingProtocol: T; eventDate: 30/09/2002; habitat: Soil, moss, litter; recordNumber: 1 L; recordedBy: MG

c. county: SWE-Kalmar; locality: Bâckebo, Grytsjön nature reserve (=TrapID 1001); verbatimElevation: 80; decimalLatitude: 56.9314; decimalLongitude: 16.0855; samplingProtocol: M; eventDate: 18/05/2006 - 15/06/2006 (=Coll.ID 1728); habitat: Old moist haymaking meadow in forest edge; recordNumber: 3 L; recordedBy: SMTP

Distribution: New for Norway and Sweden.

**Johnstoniana errans** (Johnston, 1852) [PL, L]

- GBIF [http://www.gbif.org/species/4540955](http://www.gbif.org/species/4540955)
Distribution: New for Sweden.

Notes: Unpublished record in material collected by Lohmander on Öland (no additional data) at the Swedish Museum of Natural History, Stockholm.

*Johnstoniana eximia* (Berlese, 1910) [PL, L]

- GBIF [https://www.gbif.org/species/4540964](https://www.gbif.org/species/4540964)

Materials

- a. county: NOR-Akershus; locality: By the river Leira, in the vicinity of Lillestrøm; verbatimElevation: 100; decimalLatitude: 59.9642; decimalLongitude: 11.0880; samplingProtocol: T; eventDate: 06/06/2002; habitat: By the river, litter, humus; recordNumber: 1 L; recordedBy: MG
- b. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 7 L; recordedBy: MG
- c. county: NOR-Vestfold; locality: In the vicinity of Nalum; verbatimElevation: 50; decimalLatitude: 58.9894; decimalLongitude: 9.9853; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 ♂; recordedBy: MG

Distribution: New for Norway.

*Johnstoniana parva* Wendt, Wohltmann, Eggers & Otto, 1994 [PL, L]

- GBIF [http://www.gbif.org/species/4540960](http://www.gbif.org/species/4540960)

Material

- a. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 6 L; recordedBy: MG

Distribution: New for Norway.

*Johnstoniana rapax* Wendt & Eggers, 1994 [PL, L]

- GBIF [http://www.gbif.org/species/4540967](http://www.gbif.org/species/4540967)

Materials

- a. county: FIN-Central Finland; locality: Jyväskylä commune, Palokka; decimalLatitude: 62.3; decimalLongitude: 25.6; eventDate: 11/08/1997; habitat: Alvajärvi lakeshore bush; recordNumber: 1 ♂; recordedBy: PTL
- b. county: FIN-Northern Savonia; locality: Sonkajärvi, Sukvea Kalakoski; decimalLatitude: 63.8; decimalLongitude: 27.4; eventDate: 07/08/1982; habitat: Stony shore of rapids with *Filipendula* and grass; recordNumber: 1 ♂; recordedBy: PTL
- c. county: FIN-Southwest Finland; locality: Korppoo, Jurmo; decimalLatitude: 59.8; decimalLongitude: 21.5; samplingProtocol: P; eventDate: 17/07/1968 - 12/10/1968; habitat: Juniper stand; recordNumber: 1 ♂; recordedBy: PTL
Family Microtrombidiidae Thor, 1935

Subfamily Eutrombidiinae Thor, 1935

*Eutrombidium frigidum* Berlese, 1910 [PL]

- GBIF [https://www.gbif.org/species/4540722](https://www.gbif.org/species/4540722)

**Distribution:** Norway (Berlese 1910).

**Notes:** Only single record in literature (Berlese 1910) and no recent occurrences since then. Identification questionable.

*Eutrombidium trigonum* (Hermann, 1804) [PL, L]

- GBIF [http://www.gbif.org/species/4540723](http://www.gbif.org/species/4540723)

**Distribution:** Norway (Thor 1900b).

**Notes:** Only single record in literature (Thor 1900) and no recent occurrences since then. Identification questionable.

Subfamily Microtrombidiinae Thor, 1935

*Atractothrombium fusicomum* (Berlese, 1910) [PL, L]

- GBIF [https://www.gbif.org/species/4540640](https://www.gbif.org/species/4540640)

**Material**

- **a.** county: FIN-Southwest Finland; locality: Nauvo, Sandö, W-shore; decimalLatitude: 60.1; decimalLongitude: 22.0; eventDate: 01/06/1992; habitat: Decaying reed; recordNumber: 1 ♀; recordedBy: PTL

**Distribution:** New for Finland.
**Atractothrombium sylvaticum** (C.L. Koch, 1835) [PL, L]

- GBIF: [https://www.gbif.org/species/4540644](https://www.gbif.org/species/4540644)

**Materials**

a. county: NOR-Hordaland; locality: Stalheimskleiva; verbatimElevation: 125; decimalLatitude: 60.8431; decimalLongitude: 6.7111; samplingProtocol: T; eventDate: 12/08/2001; habitat: Litter; recordNumber: 4 L; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100; decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate: 22/05/2001; habitat: Grass tussocks on stony beach, humic soil with herbaceous plants and moss; recordNumber: 1 DN; recordedBy: JM

c. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 100; decimalLatitude: 61.2978; decimalLongitude: 7.3242; samplingProtocol: T; eventDate: 19/08/2001; habitat: Litter; recordNumber: 5 L; recordedBy: MG, GM

d. county: NOR-Sogn og Fjordane; locality: Kvål, in the vicinity of Grimeland; verbatimElevation: 150; decimalLatitude: 61.5122; decimalLongitude: 5.9925; samplingProtocol: T; eventDate: 22/09/2006; habitat: Riverside with alder trees, from the inside of decaying tree trunk; recordNumber: 1 DN; recordedBy: MG

**Distribution:** Norway (Berlese 1910, Mąkol and Gulvik 2002) and Sweden (Andersén 1863).

**Notes:** *Microtrombidium (Enemothrombium) simulans* Berlese, 1910 is a junior synonym (Gabryś et al. 2005).

**Atractothrombium tectocervix** (Oudemans, 1903) [L]

- GBIF: [https://www.gbif.org/species/4540645](https://www.gbif.org/species/4540645)

**Distribution:** Norway (Oudemans 1912) and Sweden (Oudemans 1912, Sellnick 1958).

**Notes:** Species originally assigned to *Hydrachna* by Oudemans (1903). No recent records. Identification questionable.

**Atractothrombium sp.**

**Material**

a. county: SWE-Värmland; locality: Ransäter, Rudstorp (=TrapID 1002); verbatimElevation: 85; decimalLatitude: 59.7730; decimalLongitude: 13.4737; samplingProtocol: M; eventDate: 07/07/2005 - 15/07/2005 (=Coll.ID 1375); habitat: Sandy railway embankment through pasture-land; recordNumber: 1 L; recordedBy: SMTP

**Notes:** Potential new species for science from Sweden. Morphologically near *Atractothrombium sylvaticum* (C.L. Koch, 1835).
**Camerotrombidium pexatum** (C.L. Koch, 1837) [PL, L]

- GBIF [http://www.gbif.org/species/4540682](http://www.gbif.org/species/4540682)

**Distribution:** Norway (Thor 1900b, Berlese 1910, Mąkol and Gulvik 2002).

**Notes:** *Microtrombium (Enemothrombium) calicigerum* Berlese, 1910 is a junior synonym (Hull 1918).

**Camerotrombidium rasum** (Berlese, 1910) [PL, L]

- GBIF [http://www.gbif.org/species/4540676](http://www.gbif.org/species/4540676)

**Materials**

- **a.** county: NOR-Hordaland; locality: Between Fossmarki and Stanghelle; verbatimElevation: 75; decimalLatitude: 60.5308; decimalLongitude: 5.7247; samplingProtocol: T; eventDate: 22/08/2006; habitat: Humus; recordNumber: 1 DN; recordedBy: MG, JL

- **b.** county: NOR-Sogn og Fjordane; locality: In the vicinity of Eikefjord; verbatimElevation: 100; decimalLatitude: 61.5972; decimalLongitude: 5.4336; samplingProtocol: T; eventDate: 13/08/2000; habitat: Litter; recordNumber: 1 AD; recordedBy: MG

- **c.** county: NOR-Sogn og Fjordane; locality: Luster; verbatimElevation: 25; decimalLatitude: 61.4458; decimalLongitude: 7.4661; samplingProtocol: T; eventDate: 11/04/2001; habitat: Soil, litter, undergrowth; recordNumber: 1 AD; recordedBy: MG

- **d.** county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG

- **e.** county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 15/11/2005; habitat: Soil, moss, animal faeces; recordNumber: 2 AD, 2 DN; recordedBy: MG

- **f.** county: NOR-Sogn og Fjordane; locality: Selja; verbatimElevation: 50; decimalLatitude: 62.0475; decimalLongitude: 5.3133; samplingProtocol: T; eventDate: 03/06/2006; habitat: Soil, humus, moss; recordNumber: 2 AD; recordedBy: IA

- **g.** county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 06/09/1966; habitat: In mire; recordNumber: 2 PL; recordedBy: PTL

- **h.** county: FIN-Southwest Finland; locality: Parainen, Mustfinno; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 10/10/1966; recordNumber: 1 AD; recordedBy: PTL

**Distribution:** Norway (Mąkol and Gulvik 2002) and new for Finland.

**Camerotrombidium sigthori** Thor & Willmann, 1947 [PL]

- GBIF [http://www.gbif.org/species/4540681](http://www.gbif.org/species/4540681)

**Distribution:** Norway (Thor 1900b).
Notes: *Camerotrombidium sigthori* Thor & Willmann, 1947 is a replacement name for *Ottonia purpurea* s. Thor (1900b). Only single record in literature (Thor 1900b) and no recent occurrences since then. Identification questionable.

*Camerotrombidium vesiculosum* (Thor, 1900) [PL]

- GBIF [http://www.gbif.org/species/4540674](http://www.gbif.org/species/4540674)

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900, as *Ottonia vesiculosa*) and no recent occurrences since then. Identification questionable.

*Campylothrombium clavatum* (George, 1909) [PL, L]

- GBIF [http://www.gbif.org/species/4540621](http://www.gbif.org/species/4540621)

Materials

a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG

b. county: NOR-Buskerud; locality: Lerberg, in the vicinity of Hokksund; verbatimElevation: 100; decimalLatitude: 59.7772; decimalLongitude: 9.9244; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 L; recordedBy: MG

c. county: NOR-Buskerud; locality: Vikersund; verbatimElevation: 100; decimalLatitude: 59.9675; decimalLongitude: 9.9847; samplingProtocol: T; eventDate: 06/06/2001; habitat: Decaying wood from tree trunk, litter and soil from trunk surroundings; recordNumber: 14 L; recordedBy: MG

d. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 ♀, 3 AD, 1 DN; recordedBy: MG

e. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG

f. county: NOR-Hordaland; locality: In the vicinity of Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5492; decimalLongitude: 5.7344; samplingProtocol: T; eventDate: 24/06/2001; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG

g. county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50; decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG

h. county: SWE-Kalmar; locality: Öland (=TrapID 22); verbatimElevation: 40; decimalLatitude: 56.6167; decimalLongitude: 16.5076; samplingProtocol: M; eventDate: 15/06/2005 - 29/06/2005 (=Coll.ID 1314); habitat: Meadow with bushes; recordNumber: 1 L; recordedBy: SMTP

i. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 - 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 2 L; recordedBy: SMTP
### Distribution

**Campylothrombium striaticeps** (Oudemans, 1904) [L]  

**Distribution:** New for Norway, Sweden and Finland.

**Dactylothrombium pulcherrimum** (Haller, 1882) [PL, L]

- **Materials**
  
a. **county:** NOR-Akershus; **locality:** By the river Leira, in the vicinity of Lillestrøm;  
   **verbatimElevation:** 100; **decimalLatitude:** 59.9642; **decimalLongitude:** 11.0880;  
   **samplingProtocol:** T; **eventDate:** 06/06/2002; **habitat:** By the river, litter, humus;  
   **recordNumber:** 1 AD; **recordedBy:** MG
b. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Litter, soil, rot from the inside of decaying tree trunk; recordNumber: 2 AD, 1 ♀; recordedBy: MG

c. county: NOR-Buskerud; locality: Between Lindelia and Sænsteby, shore of lake Krøderen; verbatimElevation: 150; decimalLatitude: 60.3392; decimalLongitude: 9.6489; samplingProtocol: T; eventDate: 26/08/2000; habitat: Shore of lake, moss, litter, soil; recordNumber: 1 AD; recordedBy: MG

d. county: NOR-Buskerud; locality: Vikersund; verbatimElevation: 100; decimalLatitude: 59.9675; decimalLongitude: 9.8487; samplingProtocol: T; eventDate: 06/06/2001; habitat: Rot from tree trunk, litter and soil from trunk surroundings; recordNumber: 2 ♀, 1 AD, 2 DN; recordedBy: MG

e. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 ♀, 10 AD, 2 L; recordedBy: MG

f. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 3 AD, 1 DN; recordedBy: MG

g. county: NOR-Buskerud; locality: Hjelmen; verbatimElevation: 600; decimalLatitude: 60.8081; decimalLongitude: 8.6772; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 1 AD; recordedBy: MG

h. county: NOR-Hordaland; locality: In the vicinity of Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5492; decimalLongitude: 5.7344; samplingProtocol: T; eventDate: 24/06/2001; habitat: Litter, soil; recordNumber: 1 ♀, 3 DN; recordedBy: MG

i. county: NOR-Hordaland; locality: Between Bulken and Rekve; verbatimElevation: 60; decimalLatitude: 60.6275; decimalLongitude: 6.2961; samplingProtocol: T; eventDate: 24/06/2001; habitat: Moss and humus at the base of tree trunk; recordNumber: 3 AD, 2 L; recordedBy: MG

j. county: NOR-Hordaland; locality: In the vicinity of Kolstallen and Bergen; verbatimElevation: 50; decimalLatitude: 60.4411; decimalLongitude: 5.4511; samplingProtocol: T; eventDate: 04/07/2001; habitat: Soil, undergrowth, rot from decaying tree trunk; recordNumber: 3 ♀, 1 L; recordedBy: MG

k. county: NOR-Hordaland; locality: Blinde; verbatimElevation: 100; decimalLatitude: 60.4639; decimalLongitude: 5.3786; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG

l. county: NOR-Hordaland; locality: Haukeland, in the vicinity of Bergen; verbatimElevation: 100; decimalLatitude: 60.3528; decimalLongitude: 5.4478; samplingProtocol: T; eventDate: 05/07/2004; habitat: Soil, humus, litter; recordNumber: 2 DN, 1 ♀; recordedBy: MG

m. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 5/07/2004; habitat: Litter, humus; recordNumber: 2 DN; recordedBy: MG

n. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, humus; recordNumber: 1 ♀; recordedBy: MG

o. county: NOR-Hordaland; locality: Hola; verbatimElevation: 570; decimalLatitude: 60.9019; decimalLongitude: 6.4836; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, moss; recordNumber: 3 AD, 1 DN, 7 L; recordedBy: MG
p. county: NOR-Sogn og Fjordane; locality: Kaupanger; verbatimElevation: 200; decimalLatitude: 61.1942; decimalLongitude: 7.2192; samplingProtocol: T; eventDate: 15/08/2000; habitat: Rot from tree trunk; recordNumber: 1 ♂, 2 AD; recordedBy: MG

q. county: NOR-Sogn og Fjordane; locality: In the vicinity of Sognadal; verbatimElevation: 180; decimalLatitude: 61.2042; decimalLongitude: 7.1983; samplingProtocol: T; eventDate: 15/08/2000; habitat: Soil, humus; recordNumber: 2 AD; recordedBy: MG

r. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG

s. county: NOR-Sogn og Fjordane; locality: Førde; verbatimElevation: 100; decimalLatitude: 61.4550; decimalLongitude: 5.8581; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, soil, undergrowth, beneath rock wall; recordNumber: 1 AD; recordedBy: MG

t. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 150; decimalLatitude: 61.4811; decimalLongitude: 6.7419; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 3 AD, 1 DN; recordedBy: MG

u. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Grass tussocks on stony beach, humus, undergrowth, moss; recordNumber: 1 L; recordedBy: JM

v. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100; decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate: 22/05/2001; habitat: Grass tussocks on stony beach, humus, undergrowth, moss; recordNumber: 1 L; recordedBy: JM

w. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 300; decimalLatitude: 61.3314; decimalLongitude: 7.2144; samplingProtocol: T; eventDate: 25/05/2001; habitat: Moss, litter, soil; recordNumber: 2 AD, 1 DN; recordedBy: MG, JM

x. county: NOR-Sogn og Fjordane; locality: Osen; verbatimElevation: 1 120; decimalLatitude: 61.0078; decimalLongitude: 8.1094; samplingProtocol: T; eventDate: 07/06/2001; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG

y. county: NOR-Sogn og Fjordane; locality: Hønjum, in the vicinity of Bjørkum; verbatimElevation: 100; decimalLatitude: 61.0583; decimalLongitude: 7.6617; samplingProtocol: T; eventDate: 07/06/2001; habitat: Moss, soil; recordNumber: 1 AD; recordedBy: MG

z. county: NOR-Sogn og Fjordane; locality: Lærdalsøyri; verbatimElevation: 100; decimalLatitude: 61.0972; decimalLongitude: 7.4911; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 2 AD, 19 DN, 1 L; recordedBy: MG

aa. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100; decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss at the base of decaying alder trunk; recordNumber: 1 DN; recordedBy: MG, GM

ab. county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3114; decimalLongitude: 7.3556; samplingProtocol: T; eventDate: 19/08/2001; habitat: Moss, soil, humus; recordNumber: 1 DN; recordedBy: MG, GM

ac. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 175; decimalLatitude: 61.4817; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
ad. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 980; decimalLatitude: 60.9964; decimalLongitude: 6.5461; samplingProtocol: T; eventDate: 23/09/2001; habitat: Soil, humus, moss; recordNumber: 1 DN; recordedBy: MG

ae. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 950; decimalLatitude: 60.9917; decimalLongitude: 6.5403; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 3 AD; recordedBy: MG

af. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Litter, soil, moss, rot; recordNumber: 2 AD, 23 L; recordedBy: MG

ag. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 10/05/2002; habitat: Rot, litter, soil; recordNumber: 1 ♂, 1 AD; recordedBy: MG

ah. county: NOR-Sogn og Fjordane; locality: Hafslø; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/05/2002; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG

ai. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 20/04/2003; habitat: Soil, humus; recordNumber: 1 AD; recordedBy: MG, GM

aj. county: NOR-Sogn og Fjordane; locality: Hafsløvatnet, in the vicinity of Hafslø; verbatimElevation: 200; decimalLatitude: 61.2917; decimalLongitude: 7.1647; samplingProtocol: T; eventDate: 04/08/2003; habitat: Near lake, moss, soil; recordNumber: 2 DN; recordedBy: MG, MK

ak. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 08/05/2005; habitat: Soil, litter; recordNumber: 3 L.; recordedBy: MG, GM

al. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Soil, humus at the base of alder tree; recordNumber: 7 AD, 29 L.; recordedBy: MG, GM

am. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4917; decimalLongitude: 7.2681; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot from alder tree trunk, humus; recordNumber: 5 AD, 1 DN, 81 L; recordedBy: MG, GM

an. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 100; decimalLatitude: 61.5039; decimalLongitude: 7.2750; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot, moss; recordNumber: 1 DN; recordedBy: MG, GM

ao. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4914; decimalLongitude: 7.6000; samplingProtocol: T; eventDate: 05/11/2005; habitat: Soil, litter; recordNumber: 3 AD; recordedBy: MG

ap. county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 15/11/2005; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG

aq. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun; verbatimElevation: 25; decimalLatitude: 61.4878; decimalLongitude: 7.6594;
samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss and soil; recordNumber: 4 AD; recordedBy: MG

ar. county: NOR-Sogn og Fjordane; locality: Leirdal, in the vicinity of Gaupne; verbatimElevation: 75; decimalLatitude: 61.4628; decimalLongitude: 7.2497; samplingProtocol: T; eventDate: 25/12/2006; habitat: Decomposed wood, humus; recordNumber: 2 AD, 1 DN; recordedBy: MG

as. county: NOR-Vestfold; locality: In the vicinity of Nalum; verbatimElevation: 50; decimalLatitude: 58.9894; decimalLongitude: 9.9853; samplingProtocol: T; eventDate: 03/10/2002; habitat: Rot from the inside of decaying tree trunk; recordNumber: 1 ♂, 1 AD; recordedBy: MG

at. county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50; decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 3 AD; recordedBy: MG

au. county: NOR-Vestfold; locality: Between Larvik and Kvelde; verbatimElevation: 25; decimalLatitude: 59.1525; decimalLongitude: 10.0244; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 2 ♂, 2 AD; recordedBy: MG

av. county: NOR-Vestfold; locality: Between Kvelde and Rimstad; verbatimElevation: 60; decimalLatitude: 59.2217; decimalLongitude: 9.9592; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter; recordNumber: 1 ♂; recordedBy: MG

aw. county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50; decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil, decaying wood from tree trunk; recordNumber: 2 ♂, 4 AD; recordedBy: MG

Distribution: Norway (Måkol and Gulvik 2002).

**Dactylothrombium sp.**

Material

a. county: NOR-Sogn og Fjordane; locality: Sognefjellet; verbatimElevation: 1 300; decimalLatitude: 61.5478; decimalLongitude: 7.8697; samplingProtocol: T; eventDate: 22/06/2000; habitat: Soil, undergrowth; recordNumber: 10 L; recordedBy: MG, AK

Notes: Potential new species for science from Norway.

**Dimorphothrombium geographicum** (Berlese, 1910) [PL]

- GBIF [http://www.gbif.org/species/4540592](http://www.gbif.org/species/4540592)

Distribution: Norway (Berlese 1910).

Notes: Only single record in literature (Berlese 1910) and no recent occurrences since then. Identification questionable.
**Dimorphothrombium plancum** (C.L. Koch, 1837) [PL]

- GBIF [http://www.gbif.org/species/4540584](http://www.gbif.org/species/4540584)

**Distribution:** Norway (Thor 1900b).

**Notes:** Only single record in literature (Thor 1900b, as *Ottonia planca*) and no recent occurrences since then. Identification questionable.

**Echinothrombium rhodinum** (C. L. Koch, 1837) [PL, L]

- GBIF [http://www.gbif.org/species/4540597](http://www.gbif.org/species/4540597)

**Materials**

a. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 - 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

b. county: FIN-North Karelia; locality: Tohmajärvi, Kemie, Kirkkoniemi; decimalLatitude: 62.8; decimalLongitude: 30.9; eventDate: 15/08/1997; habitat: Deciduous forest with *Rhamnus* & alder; recordNumber: 1 ♀, 3 DN; recordedBy: JM
c. county: FIN-Northern Ostrobothnia; locality: Oulunsalo, Varjakka; decimalLatitude: 65.0; decimalLongitude: 25.3; eventDate: 13/06/1987; habitat: Seashore meadow; recordNumber: 6 PL; recordedBy: PTL
d. county: FIN-Southwest Finland; locality: Korppo, Österskär, Brännkläpp; decimalLatitude: 59.9; decimalLongitude: 21.1; eventDate: 21/06/1994; habitat: Litter of maritime deciduous forest; recordNumber: 1 DN; recordedBy: PTL
e. county: FIN-Southwest Finland; locality: Rymättylä, Alakylä, Isoluoto; decimalLatitude: 60.30; decimalLongitude: 21.97; eventDate: 04/09/1997; habitat: Litter of alder and decaying reed on seashore; recordNumber: 1 ♀; recordedBy: PTL

**Distribution:** New for Sweden and Finland.

**Echinothrombium spinosum** (Canestrini, 1885) [PL, L]

- GBIF [http://www.gbif.org/species/4540599](http://www.gbif.org/species/4540599)

**Materials**

a. county: NOR-Akershus; locality: By the river Leira, in the vicinity of Lillestrøm; verbatimElevation: 100; decimalLatitude: 59.9658; decimalLongitude: 11.0947; samplingProtocol: T; eventDate: 06/06/2002; habitat: By the river, soil; recordNumber: 2 ♀; recordedBy: MG

b. county: NOR-Buskerud; locality: Lerberg, in the vicinity of Hokksund; verbatimElevation: 100; decimalLatitude: 59.7772; decimalLongitude: 9.9244; samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter, soil; recordNumber: 20 L; recordedBy: MG
c. county: NOR-Buskerud; locality: Vikersund; verbatimElevation: 100; decimalLatitude: 59.9675; decimalLongitude: 9.9847; samplingProtocol: T; eventDate: 06/06/2001;
habitat: Decaying wood from tree trunk, litter and soil from trunk surroundings; recordNumber: 12 L; recordedBy: MG
d. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 75; decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate: 25/06/2005; habitat: Moss and rot at decaying trunk; recordNumber: 1 ♀; recordedBy: MG
e. county: NOR-Sogn og Fjordane; locality: In the vicinity of Eikefjord; verbatimElevation: 100; decimalLatitude: 61.5972; decimalLongitude: 5.4336; samplingProtocol: T; eventDate: 13/08/2000; habitat: Litter; recordNumber: 1 AD; recordedBy: MG
f. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 20/09/2000; habitat: Rot of pine tree; recordNumber: 1 DN; recordedBy: MG
g. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss and rot from tree trunk; recordNumber: 1 ♀, 1 DN; recordedBy: MG
h. county: NOR-Sogn og Fjordane; locality: Near Kjønsnesfjorden, in the vicinity of Kjønsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
i. county: NOR-Sogn og Fjordane; locality: Anda; verbatimElevation: 100; decimalLatitude: 61.8461; decimalLongitude: 6.0817; samplingProtocol: T; eventDate: 02/02/2001; habitat: Rot from decaying birch tree trunk; recordNumber: 1 DN; recordedBy: MG
j. county: NOR-Sogn og Fjordane; locality: Ytredalen, in the vicinity of Vadheim; verbatimElevation: 100; decimalLatitude: 61.2336; decimalLongitude: 5.8225; samplingProtocol: T; eventDate: 31/07/2001; habitat: Litter; recordNumber: 1 AD; recordedBy: MG, GM
k. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss and vegetation on decaying trunk of elm tree; recordNumber: 2 DN; recordedBy: MG
l. county: NOR-Sogn og Fjordane; locality: Hella; verbatimElevation: 100; decimalLatitude: 61.2083; decimalLongitude: 6.5975; samplingProtocol: T; eventDate: 23/09/2001; habitat: Litter; recordNumber: 1 ♀, 1 DN; recordedBy: MG
m. county: NOR-Sogn og Fjordane; locality: Svanøy; verbatimElevation: 100; decimalLatitude: 61.4828; decimalLongitude: 5.0972; samplingProtocol: T; eventDate: 11/11/2001; habitat: Bark, decaying wood and humus from tree trunk; recordNumber: 1 AD; recordedBy: MG, GM
n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 20/05/2002; habitat: Litter, moss, rot from the inside of decaying tree trunk; recordNumber: 3 ♀; recordedBy: MG
o. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.7433; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Soil, humus, at the base of alder tree; recordNumber: 4 DN; recordedBy: MG, GM
Checklist of terrestrial Parasitengona mites in Fennoscandia with new species- ...
ac. county: FIN-Åland Islands; locality: Åland, Lemland, Bergö; decimalLatitude: 60.0; decimalLongitude: 19.8; samplingProtocol: U; eventDate: 17/08/1997; habitat: Litter of rowan tree in the mixed forest; recordNumber: 1 ♀; recordedBy: JM

Distribution: Norway (Mąkol and Gulvik 2002) and new for Sweden and Finland.

*Ettmuelleria sucida* (Trägårdh, 1910) [L]

Distribution: Sweden (Trägårdh 1910).

Notes: *Sucidothrombium sucidum* (L. Koch, 1879) and *Ettmuelleria sucida* (Trägårdh, 1910) represent distinct genera and species (Southcott 1994, Mąkol and Gabryś 2002).

*Microtrombidium pusillum* (Hermann, 1804) [PL, L]

- GBIF [http://www.gbif.org/species/4540697](http://www.gbif.org/species/4540697)

Materials

a. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 06/09/1966; habitat: Pine mire; recordNumber: 5 AD; recordedBy: PTL

b. county: FIN-Southwest Finland; locality: Parainen, Mustfinno; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 10/10/1966; recordNumber: 2 AD, 1 DN; recordedBy: PTL

Distribution: Norway (Thor 1900b) and new for Finland.

*Microtrombidium spiniferum* (Thor, 1900) [PL]

- GBIF [http://www.gbif.org/species/4540690](http://www.gbif.org/species/4540690)

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900b, as *Ottonia spinifera*) and no recent occurrences since then. Identification questionable.

*Microtrombidium strandi* (Thor, 1900) [PL]

- GBIF [http://www.gbif.org/species/4540699](http://www.gbif.org/species/4540699)

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900b, as *Ottonia strandi*) and no recent occurrences since then. Identification questionable.

*Platytrombidium fasciatum* (C.L. Koch, 1836) [PL, L]

- GBIF [http://www.gbif.org/species/4540649](http://www.gbif.org/species/4540649)
**Distribution:** Norway (Berlese 1910).

**Notes:** *Microtrombidium (Enemothrombium) quadrispinum* Berlese, 1910 is a junior synonym (Gabryś et al. 2005). Only single record in literature (Berlese 1910) and no recent occurrences since then. Identification questionable.

**Sucidothrombium sucidum** (L. Koch, 1879) [PL, L]

- GBIF [http://www.gbif.org/species/4540658](http://www.gbif.org/species/4540658)

**Materials**

- **a.** county: NOR-Buskerud; locality: Bakkestølen; verbatimElevation: 800; decimalLatitude: 60.9000; decimalLongitude: 8.2875; samplingProtocol: T; eventDate: 26/08/2000; habitat: Soil, humus, moss, undergrowth; recordNumber: 1 ♀, 1 AD, 5 DN.; recordedBy: MG

- **b.** county: NOR-Hordaland; locality: Trøndsbu, Hardangervidda; verbatimElevation: 200; decimalLatitude: 60.2906; decimalLongitude: 7.5481; samplingProtocol: T; eventDate: 22/08/1997; habitat: Moist soil, *Salix lapponum*; recordNumber: 1 ♀, 16 AD, 14 DN; recordedBy: MG

- **c.** county: NOR-Hordaland; locality: Vikafjellet; verbatimElevation: 700; decimalLatitude: 60.9106; decimalLongitude: 6.4517; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss by the creek; recordNumber: 1 ♀, 7 DN; recordedBy: MG, AS

- **d.** county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1400; decimalLatitude: 61.5647; decimalLongitude: 7.9947; samplingProtocol: T; eventDate: 22/06/2000; habitat: Soil, humus, moss, undergrowth; recordNumber: 1 DN; recordedBy: MG, GM

- **e.** county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1400; decimalLatitude: 61.5617; decimalLongitude: 7.9836; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 2 ♀, 3 AD; recordedBy: MG, GM

- **f.** county: NOR-Oppland; locality: Sognefjellet, in the vicinity of Krossbu; verbatimElevation: 1450; decimalLatitude: 61.5667; decimalLongitude: 8.0183; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 3 DN; recordedBy: MG, GM

- **g.** county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1430; decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate: 02/09/2000; habitat: Soil, moss, undergrowth; recordNumber: 4 ♀, 25 AD, 22 DN; recordedBy: MG, GM

- **h.** county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1400; decimalLatitude: 61.5600; decimalLongitude: 7.9628; samplingProtocol: T; eventDate: 17/05/2003; habitat: Moss, soil; recordNumber: 1 AD, 5 L; recordedBy: MG, SS

- **i.** county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1300; decimalLatitude: 61.5600; decimalLongitude: 7.9681; samplingProtocol: T; eventDate: 20/08/2006; habitat: Soil, moss, undergrowth; recordNumber: 2 AD, 3 DN; recordedBy: MG, JL

- **j.** county: NOR-Sogn og Fjordane; locality: Galdane; verbatimElevation: 300; decimalLatitude: 61.0611; decimalLongitude: 7.7278; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 ♀; recordedBy: MG
Distribution: Norway (Trägårdh 1904, Berlese 1910, Mąkol and Gabryś 2002, Mąkol and Gulvik 2002), Sweden (Trägårdh 1902) and new for Finland.

Notes: Microtrombidium pusillum var. pingue Berlese, 1910 and Microtrombidium norvegicum Berlese, 1910 are junior synonyms (Berlese 1912, Gabryś 1999).

Subfamily Valgothrombiinae Gabryś, 1999

Enemothrombium bifoliosum (Canestrini, 1884) [PL, L]

- GBIF [Link](http://www.gbif.org/species/4540602)

Materials

a. county: NOR-Hordaland; locality: Hola; verbatimElevation: 570; decimalLatitude: 60.9019; decimalLongitude: 6.4836; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, moss; recordNumber: 1 DN; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Anda; verbatimElevation: 100; decimalLatitude: 61.8461; decimalLongitude: 6.0817; samplingProtocol: T; eventDate: 02/02/2001; habitat: Litter, soil; recordNumber: 1 DN; recordedBy: MG

c. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Moss from small peat bog; recordNumber: 1 ♀, 1 DN; recordedBy: MG, PS, SS
Distribution: Norway (Måkol and Gulvik 2002) and new for Finland.

Valgothrombium alpinum Willmann, 1940 [PL]

- GBIF http://www.gbif.org/species/4540740

Materials

a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG

b. county: NOR-Vestfold; locality: Larvik; verbatimElevation: 100; decimalLatitude: 59.0703; decimalLongitude: 10.0341; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil; recordNumber: 2 DN; recordedBy: MG

Distribution: New for Norway.

Valgothrombium confusum (Berlese, 1910) [PL]

- GBIF http://www.gbif.org/species/4540741

Materials

a. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100; decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Rot from decaying tree trunk; recordNumber: 1 AD; recordedBy: MG, GM

b. county: NOR-Vestfold; locality: In the vicinity of Berg; verbatimElevation: 50; decimalLatitude: 58.9886; decimalLongitude: 9.9003; samplingProtocol: T; eventDate: 03/10/2002; habitat: Rot from decaying tree trunk; recordNumber: 1 DN; recordedBy: MG

c. county: FIN-Southwest Finland; locality: Kaarina, Kuusisto; decimalLatitude: 60.3; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 15/07/1989 - 23/09/1989; habitat: Oak forest; recordNumber: 1 ♀, 1 AD; recordedBy: SK

Distribution: New for Norway and Finland.

Valgothrombium major (Halbert, 1920) [PL]

- GBIF http://www.gbif.org/species/4540734

Material

a. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T;
eventDate: 04/07/2002; habitat: Moss from small peatbog; recordNumber: 2 AD; recordedBy: MG, PS, SS

Distribution: Sweden (Willmann 1943) and new for Norway.

Valgothrombiu mariæ Mąkol & Laydanowicz, 2010 [L]

- GBIF [http://www.gbif.org/species/7426675](http://www.gbif.org/species/7426675)

Material

a. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Rot from decaying tree trunk; recordNumber: 2 L; recordedBy: MG

Distribution: Norway (Mąkol and Laydanowicz 2010).

Valgothrombiu stuarti Baker, 1999 [L]

- GBIF [http://www.gbif.org/species/4540736](http://www.gbif.org/species/4540736)

Material

a. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 - 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

Distribution: New for Sweden.

Valgothrombiu valgum (George, 1909) [PL, L]

- GBIF [http://www.gbif.org/species/4540748](http://www.gbif.org/species/4540748)

Materials

a. county: FIN-Southwest Finland; locality: Parainen, Lapplahti, Kalastajakopinranta; decimalLatitude: 60.29; decimalLongitude: 22.09; eventDate: 26/07/1982; habitat: Limestone with Thymus, Sedum annum etc.; recordNumber: 1 AD, 3 DN; recordedBy: PTL

b. county: FIN-Southwest Finland; locality: Nauvo, Sandö; decimalLatitude: 60.17; decimalLongitude: 22.09; eventDate: 9/09/1992; habitat: Pondside mire with Calla, Comarum, Carex spp.; recordNumber: 1 ♀, 1 ♂, 1 AD, 1 DN; recordedBy: PTL

Distribution: New for Finland.
Family Podothrombiidae Thor, 1935

Podothrombium bicolor (Hermann, 1804) [PL]

- GBIF [http://www.gbif.org/species/4541020]

Materials

a. county: NOR-Buskerud; locality: Granheim, by the river Hemsil; verbatimElevation: 550; decimalLatitude: 60.7783; decimalLongitude: 8.7597; samplingProtocol: T; eventDate: 26/08/2000; habitat: By the river, soil, moss, litter, undergrowth; recordNumber: 1 DN; recordedBy: MG

b. county: NOR-Buskerud; locality: Komnes; verbatimElevation: 80; decimalLatitude: 59.5078; decimalLongitude: 9.9167; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, litter; recordNumber: 1 DN; recordedBy: MG

c. county: NOR-Buskerud; locality: Efteløt; verbatimElevation: 70; decimalLatitude: 59.5517; decimalLongitude: 9.8042; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil, litter; recordNumber: 1 AD, 9 DN; recordedBy: MG

d. county: NOR-Buskerud; locality: Near Hostvet, at the level of Lande; verbatimElevation: 80; decimalLatitude: 59.6083; decimalLongitude: 9.7425; samplingProtocol: T; eventDate: 31/09/2002; habitat: Soil, moss, litter; recordNumber: 1 DN; recordedBy: MG

e. county: NOR-Hordaland; locality: Skreidi, between Vaksdal and Fossmarki; verbatimElevation: 50; decimalLatitude: 60.4939; decimalLongitude: 5.7339; samplingProtocol: T; eventDate: 06/07/2001; habitat: Moss, soil, humus; recordNumber: 1 AD, 3 DN; recordedBy: MG

f. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil, rot; recordNumber: 3 DN; recordedBy: MG, JM

g. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 300; decimalLatitude: 61.3314; decimalLongitude: 7.2144; samplingProtocol: T; eventDate: 25/05/2001; habitat: Soil, humus, undergrowth; recordNumber: 1 AD; recordedBy: MG, JM

h. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 950; decimalLatitude: 60.9917; decimalLongitude: 6.5403; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

i. county: NOR-Sogn og Fjordane; locality: Hella; verbatimElevation: 100; decimalLatitude: 61.2083; decimalLongitude: 6.5975; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, litter; recordNumber: 6 DN; recordedBy: MG

j. county: NOR-Sogn og Fjordane; locality: Hov, in the vicinity of Vik; verbatimElevation: 400; decimalLatitude: 61.3231; decimalLongitude: 6.2603; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, humus; recordNumber: 1 AD; recordedBy: MG, PS, SS

k. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 5 DN; recordedBy: MG

l. county: NOR-Sogn og Fjordane; locality: In the vicinity of Kroken; verbatimElevation: 50; decimalLatitude: 61.3553; decimalLongitude: 7.3942; samplingProtocol: T; eventDate: 20/07/2003; habitat: Soil; recordNumber: 1 AD; recordedBy: MG
Distribution: Norway (Thor 1930, Mąkol and Gulvik 2002) and Finland (Nordberg 1936, Mąkol et al. 2006).

Podothrombium curtipalpe (Thor, 1900) [PL]

- GBIF [http://www.gbif.org/species/4541023](http://www.gbif.org/species/4541023)

Distribution: Norway (Thor 1900b), Sweden (Trägårdh 1904, Trägårdh 1910) and Finland (Mąkol et al. 2006).

Notes: Species listed by Trägårdh (1904) and Trägårdh (1910) as Trombidium bicolor var. curtipalpe.
*Podothrombium filipes* (C.L. Koch, 1837) [PL, L]

- GBIF [http://www.gbif.org/species/4541012](http://www.gbif.org/species/4541012)

**Materials**

a. county: NOR-Buskerud; locality: Søre, by the river Hallingdalselve; verbatimElevation: 180; decimalLatitude: 60.4667; decimalLongitude: 9.2456; samplingProtocol: T; eventDate: 26/08/2000; habitat: By the river, litter at the base of birch trunk; recordNumber: 1 ♀; recordedBy: MG

b. county: NOR-Buskerud; locality: Noresund; verbatimElevation: 150; decimalLatitude: 60.1800; decimalLongitude: 9.6211; samplingProtocol:; eventDate: 06/06/2001; habitat: Litter; recordNumber: 1 DN; recordedBy: MG

c. county: NOR-Buskerud; locality: Near Hostvet, at the level of Lande; verbatimElevation: 80; decimalLatitude: 59.6083; decimalLongitude: 9.7425; samplingProtocol: T; eventDate: 30/09/2002; habitat: Soil, moss, litter; recordNumber: 3 DN; recordedBy: MG

d. county: NOR-Hordaland; locality: Trondsbu, Hardangervidda; verbatimElevation: 1200; decimalLatitude: 60.2906; decimalLongitude: 7.5481; samplingProtocol: T; eventDate: 22/08/1997; habitat: Moist soil; recordNumber: 1 DN; recordedBy: MG

e. county: NOR-Hordaland; locality: In the vicinity of Kolstallen and Bergen; verbatimElevation: 50; decimalLatitude: 60.4411; decimalLongitude: 5.4511; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, soil, litter; recordNumber: 7 L; recordedBy: MG

f. county: NOR-Hordaland; locality: Blinde; verbatimElevation: 100; decimalLatitude: 60.4639; decimalLongitude: 5.3786; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, litter, soil, undergrowth; recordNumber: 6 L; recordedBy: MG

g. county: NOR-Hordaland; locality: Vaksdal; verbatimElevation: 75; decimalLatitude: 60.4708; decimalLongitude: 5.7458; samplingProtocol: T; eventDate: 06/07/2001; habitat: Litter and soil from the bed of ravine; recordNumber: 4 L; recordedBy: MG

h. county: NOR-Hordaland; locality: Stalheimskleiva; verbatimElevation: 125; decimalLatitude: 60.8431; decimalLongitude: 6.7111; samplingProtocol: T; eventDate: 04/10/2001; habitat: Litter, soil, moss and bark from decaying trunks; recordNumber: 2 ♀; recordedBy: MG

i. county: NOR-Hordaland; locality: Haukeland, in the vicinity of Bergen; verbatimElevation: 100; decimalLatitude: 60.3528; decimalLongitude: 5.4478; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moist litter; recordNumber: 8 L; recordedBy: MG

j. county: NOR-Hordaland; locality: Sandviki; verbatimElevation: 50; decimalLatitude: 60.4567; decimalLongitude: 5.6786; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss, humus; recordNumber: 18 L; recordedBy: MG

k. county: NOR-Hordaland; locality: Between Fossmarki and Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5308; decimalLongitude: 5.7247; samplingProtocol: T; eventDate: 05/07/2004; habitat: Litter, humus, moss, lady fern, bird cherry; recordNumber: 4 L; recordedBy: MG

l. county: NOR-Hordaland; locality: Evanger; verbatimElevation: 50; decimalLatitude: 60.6472; decimalLongitude: 6.1356; samplingProtocol: T; eventDate: 05/07/2004; habitat: Overgrown arable area, grassy forest bed, humus, litter, moss; recordNumber: 7 L; recordedBy: MG, AS

m. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 75; decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss, humus, litter, moss; recordNumber: 18 L; recordedBy: MG, AS
25/06/2005; habitat: Rot from decaying tree trunk; recordNumber: 5 L; recordedBy: MG

county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 25;
decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss; recordNumber: 4 DN; recordedBy: MG

o. county: NOR-Sogn og Fjordane; locality: Nigardsbreen; verbatimElevation: 350;
decimalLatitude: 61.6764; decimalLongitude: 7.2083; samplingProtocol: T; eventDate: 20/09/2000; habitat: Feet of the Nigardsbreen glacier, near the lake Nigardsbreevatnet, birch forest, rot, very moist; recordNumber: 1 DN; recordedBy: MG

county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog;
verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Soil, moss, undergrowth; recordNumber: 1 DN; recordedBy: MG

County: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG

 County: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120;
decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 13/11/2000; habitat: Rot from tree trunk; recordNumber: 2 DN; recordedBy: MG

county: NOR-Sogn og Fjordane; locality: Anda; verbatimElevation: 100;
decimalLatitude: 61.8461; decimalLongitude: 6.0817; samplingProtocol: T; eventDate: 02/02/2001; habitat: Litter, soil; recordNumber: 1 DN; recordedBy: MG

County: NOR-Sogn og Fjordane; locality: Ytredalen, in the vicinity of Vadheim;
verbatimElevation: 100; decimalLatitude: 61.2336; decimalLongitude: 5.8225; samplingProtocol: T; eventDate: 31/07/2001; habitat: Soil, moss, undergrowth; recordNumber: 6 L; recordedBy: MG, GM

County: NOR-Sogn og Fjordane; locality: Sande; verbatimElevation: 75;
decimalLatitude: 61.3247; decimalLongitude: 5.7947; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss, soil; recordNumber: 1 L; recordedBy: MG, GM

County: NOR-Sogn og Fjordane; locality: In the vicinity of Førde; verbatimElevation: 300; decimalLatitude: 61.4108; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss, soil, undergrowth; recordNumber: 2 L; recordedBy: MG, GM
aa. county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3072; decimalLongitude: 7.3422; samplingProtocol: T; eventDate: 19/08/2001; habitat: Moss, soil; recordNumber: 1 ♂, 1 L; recordedBy: MG, GM

ab. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 DN; recordedBy: MG

ac. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, undergrowth; recordNumber: 1 ♂, 7 DN; recordedBy: MG

ad. county: NOR-Sogn og Fjordane; locality: Astruptunet; verbatimElevation: 200; decimalLatitude: 61.5119; decimalLongitude: 6.3028; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 13 DN, 3 L; recordedBy: MG

ae. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 950; decimalLatitude: 60.9917; decimalLongitude: 6.5403; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

af. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120; decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 19/10/2001; habitat: Rot from elm tree trunk; recordNumber: 1 DN; recordedBy: MG

ag. county: NOR-Sogn og Fjordane; locality: Svanøy; verbatimElevation: 100; decimalLatitude: 61.4828; decimalLongitude: 5.0972; samplingProtocol: T; eventDate: 11/11/2001; habitat: Moss, soil, undergrowth; recordNumber: 1 ♂; recordedBy: MG

ah. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Bark with moss from the edge of forest covering the upper part of moraine; recordNumber: 2 L; recordedBy: MG, PS, SS

ai. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 1 AD, 14 DN; recordedBy: MG

aj. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 20/04/2003; habitat: Moss from decaying elm branch, soil, undergrowth; recordNumber: 4 DN; recordedBy: MG, GM

ak. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 50; decimalLatitude: 61.3017; decimalLongitude: 7.3203; samplingProtocol: T; eventDate: 20/07/2003; habitat: Moss, soil, undergrowth; recordNumber: 4 L; recordedBy: MG

al. county: NOR-Sogn og Fjordane; locality: Feigum; verbatimElevation: 25; decimalLatitude: 61.3839; decimalLongitude: 7.4239; samplingProtocol: T; eventDate: 20/07/2003; habitat: Moss by the stream mouth; recordNumber: 9 L; recordedBy: MG

am. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 ♂; recordedBy: MG

an. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

ao. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
ap. county: NOR-Sogn og Fjordane; locality: In the vicinity of Feigum; verbatimElevation: 25; decimalLatitude: 61.4006; decimalLongitude: 7.4697; samplingProtocol: T; eventDate: 20/07/2004; habitat: Humus; recordNumber: 1 AD; recordedBy: MG

aq. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.4950; decimalLongitude: 7.5867; samplingProtocol: T; eventDate: 23/03/2005; habitat: Humus, bark at the base of Salix caprea; recordNumber: 2 DN; recordedBy: MG

ar. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Soil, humus, at the base of alder trees; recordNumber: 1 DN; recordedBy: MG, GM

as. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4917; decimalLongitude: 7.2681; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot from alder tree trunk, humus; recordNumber: 3 DN; recordedBy: MG, GM

at. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 30/08/2005; habitat: Meadow with trees, moss, litter, soil, rot; recordNumber: 3 ♂, 1 AD, 8 DN; recordedBy: MG

au. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4639; decimalLongitude: 7.5300; samplingProtocol: T; eventDate: 05/11/2005; habitat: Moss, leaves, branches, soil; recordNumber: 2 DN; recordedBy: MG

av. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Forest edge, sandy-clayey soil with moss; recordNumber: 4 DN; recordedBy: MG

aw. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun; verbatimElevation: 25; decimalLatitude: 61.4878; decimalLongitude: 7.6594; samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss from birch tree trunk; recordNumber: 1 DN; recordedBy: MG

ax. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: C; eventDate: 01/07/2006; habitat: Bushes; recordNumber: 1 L; recordedBy: JL, MG

ay. county: NOR-Sogn og Fjordane; locality: Opptun; verbatimElevation: 400; decimalLatitude: 61.4997; decimalLongitude: 7.7247; samplingProtocol: T; eventDate: 07/08/2006; habitat: Humus and moss by the riverside; recordNumber: 7 L; recordedBy: JL, MG

az. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4914; decimalLongitude: 7.6050; samplingProtocol: T; eventDate: 06/09/2006; habitat: Moss and soil; recordNumber: 1 DN; recordedBy: MG

ba. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4914; decimalLongitude: 7.6050; samplingProtocol: T; eventDate: 06/09/2006; habitat: Moss, soil, humus; recordNumber: 1 ♂, 1 DN; recordedBy: MG, GM

bb. county: NOR-Sogn og Fjordane; locality: Kvål, in the vicinity of Grimeland; verbatimElevation: 150; decimalLatitude: 61.5122; decimalLongitude: 5.9925; samplingProtocol: T; eventDate: 22/09/2006; habitat: Moss, soil, humus, rot by the riverside, alder trees; recordNumber: 1 AD, 15 DN; recordedBy: MG

bc. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skei; verbatimElevation: 200; decimalLatitude: 61.6483; decimalLongitude: 6.5200; samplingProtocol: T; eventDate:
22/09/2006; habitat: Soil, moss and rot from surroundings of grey alder; recordNumber: 1 ♀, 5 DN; recordedBy: MG

bd. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: Litter and soil at the base of birch; recordNumber: 1 DN; recordedBy: MG, MW

be. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: House garden, decaying raspberry shrubs; recordNumber: 1 DN; recordedBy: MG, MW

bf. county: NOR-Sogn og Fjordane; locality: Leirdal, in the vicinity of Gaupne; verbatimElevation: 75; decimalLatitude: 61.4628; decimalLongitude: 7.2497; samplingProtocol: T; eventDate: 25/12/2006; habitat: Decomposed wood, humus, moss; recordNumber: 7 DN; recordedBy: MG

bg. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 08/09/2007; habitat: Slope near road, very moist grass, moss, soil; recordNumber: 2 ♀, 1 AD; recordedBy: JŁ

bh. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4919; decimalLongitude: 7.6058; samplingProtocol: U; eventDate: 10/09/2007; habitat: Moderately moist meadow, close to river and forest, grass, moss and soil; recordNumber: 1 ♀; recordedBy: JŁ

bi. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6056; samplingProtocol: U; eventDate: 11/09/2007; habitat: River bank, grass, moss, in humic soil; recordNumber: 3 ♀; recordedBy: JŁ

bj. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 17/09/2007; habitat: Slope near road, very moist grass, moss, soil; recordNumber: 1 ♀, 3 DN; recordedBy: JŁ

bk. county: NOR-Vestfold; locality: Larvik; verbatimElevation: 100; decimalLatitude: 59.0703; decimalLongitude: 10.0341; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil; recordNumber: 1 ♀; recordedBy: MG

Distribution: Norway Thor 1900b, Berlese 1910, Haitlinger 2000, Mąkol and Gulvik 2002), Sweden (Andersén 1863) and Finland (Mąkol 2000a, Mąkol et al. 2006).

Notes: *Podothrombium magnum* Berlese, 1910 and *Podothrombium roari* Haitlinger, 2000 are junior synonyms (Mąkol 2005).

*Podothrombium kordulae* Haitlinger, 1995 [L]

- GBIF [http://www.gbif.org/species/4541002](http://www.gbif.org/species/4541002)

Materials

a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Decomposed wood from the inside of decaying tree trunk; recordNumber: 3 L; recordedBy: MG
b. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 2 L; recordedBy: MG

c. county: NOR-Hordaland; locality: Hola; verbatimElevation: 570; decimalLatitude: 60.9019; decimalLongitude: 6.4836; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, moss; recordNumber: 6 L; recordedBy: MG

d. county: NOR-Sogn og Fjordane; locality: In the vicinity of Førde; verbatimElevation: 300; decimalLatitude: 61.4108; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss, soil, undergrowth; recordNumber: 2 L; recordedBy: MG, GM

e. county: NOR-Sogn og Fjordane; locality: Hov, in the vicinity of Vik; verbatimElevation: 400; decimalLatitude: 61.3231; decimalLongitude: 6.2603; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, humus; recordNumber: 2 L; recordedBy: MG, PS, SS

**Distribution:** New for Norway.

*Podothrombium strandi* Berlese, 1910 [PL]

- GBIF [http://www.gbif.org/species/4541011](http://www.gbif.org/species/4541011)

**Materials**

a. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400; decimalLatitude: 61.5617; decimalLongitude: 7.9836; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 1 AD, 2 DN; recordedBy: MG, GM

b. county: NOR-Oppland; locality: Sognefjellet, in the vicinity of Krossbu; verbatimElevation: 1 450; decimalLatitude: 61.5667; decimalLongitude: 8.0183; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 2 AD, 1 DN; recordedBy: MG, GM

c. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430; decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate: 02/09/2000; habitat: Soil, moss, undergrowth; recordNumber: 4 AD, 4 DN; recordedBy: MG, GM

d. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 300; decimalLatitude: 61.5600; decimalLongitude: 7.9681; samplingProtocol: T; eventDate: 20/08/2006; habitat: Moss, litter; recordNumber: 1 DN; recordedBy: MG, JL

e. county: NOR-Sogn og Fjordane; locality: Hegg; verbatimElevation: 400; decimalLatitude: 61.0808; decimalLongitude: 7.8981; samplingProtocol: T; eventDate: 26/08/2000; habitat: Rot from decaying tree trunk, by the stream; recordNumber: 1 ♀; recordedBy: MG

**Distribution:** Norway (Berlese 1910) and Finland (Mąkol et al. 2006).

*Podothrombium svalbardense* Oudemans, 1930 [L]

- GBIF [http://www.gbif.org/species/4541030](http://www.gbif.org/species/4541030)
Material
a. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430; decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate: 02/09/2000; habitat: Soil, moss, undergrowth; recordNumber: 2 L; recordedBy: MG, GM

Distribution: Norway (Oudemans 1930 in: Thor 1930).

Podothrombium sp.

Material
a. county: NOR-Hordaland; locality: Trondsbu, Hardangervidda; verbatimElevation: 1 200; decimalLatitude: 60.2906; decimalLongitude: 7.5481; samplingProtocol: T; eventDate: 22/08/1997; habitat: Moist soil, Salix lapponum trees; recordNumber: 4 L; recordedBy: MG

Notes: Potential new species for science from Norway. Morphologically near Podothrombium piriforme Robaux and Schiess, 1982.

Family Tanaupodidae Thor, 1935

Rhinothrombium nemoricola (Berlese, 1886) [PL]

• GBIF http://www.gbif.org/species/4540909

Distribution: Norway (Måkol and Gulvik 2002).

Tanaupodus bifurcatus Carl, 1966 [PL]

• GBIF https://www.gbif.org/species/4540907

Distribution: Norway (Carl 1966).

Notes: Only single record in literature (Carl 1966) and no recent occurrences since then. Identification questionable.

Tanaupodus passimpilosus Berlese, 1910 [PL]

• GBIF http://www.gbif.org/species/4540906

Distribution: Norway (Oudemans 1927).

Notes: Only single record in literature (Oudemans 1927) and no recent occurrences since then. Identification questionable.
Family Trombellidae Thor, 1935

Subfamily Trombellinae Thor, 1935

*Nothrotrombidium otiorum* (Berlese, 1902) [PL, L]

- GBIF [http://www.gbif.org/species/4540922](http://www.gbif.org/species/4540922)

**Distribution:** Norway (Berlese 1912).

**Notes:** Only single record in literature (Berlese 1912) and no recent occurrences since then. Identification questionable.

Family Trombiculidae Ewing, 1929

Subfamily Trombiculinae Ewing, 1929

*Hirsutiella zachvatkini* (Schluger, 1948) [PL, L]

- GBIF [http://www.gbif.org/species/4541170](http://www.gbif.org/species/4541170)

**Material**

a. county: FIN-Southwest Finland; locality: Rymättylä, Alakylä, Isoluoto; decimalLatitude: 60.30; decimalLongitude: 21.97; eventDate: 04/09/1997; habitat: Litter of alder and decaying reed on seashore; recordNumber: 1 PL; recordedBy: PTL

**Distribution:** Norway (Mehl 1979), Sweden (Edler 1969, Edler 1972) and new for Finland.

*Leptotrombidium russicum* (Oudemans, 1902) [PL, L]

- GBIF [https://www.gbif.org/species/4541159](https://www.gbif.org/species/4541159)

**Material**

a. county: FIN-Southwest Finland; locality: Raisio, Kaanaa; decimalLatitude: 60.46; decimalLongitude: 22.09; samplingProtocol: U; eventDate: 28/08/1986; habitat: Ears of *Eptesicus nilssonii*; recordNumber: 9 L; recordedBy: PTL, AKA

**Distribution:** New for Finland.

*Neotrombicula autumnalis* (Shaw, 1790) [PL, L]

- GBIF [http://www.gbif.org/species/4541106](http://www.gbif.org/species/4541106)
Material

a. county: FIN-Southwest Finland; locality: Nauvo, Gullkrona village; decimalLatitude: 60.0; decimalLongitude: 22.0; eventDate: 06/12/1982; habitat: N harbour, tussocks of grass with burrows of Microtus agrestis; recordNumber: 1 AD; recordedBy: PTL

Distribution: Norway (Stekolnikov and Daniel 2012), Sweden (Stekolnikov and Daniel 2012) and Finland (Stekolnikov and Daniel 2012).

Notes: We could not locate the published records in Fennoscandia, except for reference to the presence of N. autumnalis in Norway, Sweden and Finland, provided by Stekolnikov and Daniel (2012). Moreover, N. autumnalis has been reported in health care. One record, probably unpublished, from Öland, Sweden, in Lundqvist's collection (Zoological Museum in Lund).

Neotrombicula talmiensis (Schluger, 1955) [PL, L]

- GBIF [http://www.gbif.org/species/4541104]

Material

a. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Forest edge, sandy-clayey soil, moss; recordNumber: 1 DN; recordedBy: MG

Distribution: New for Norway.

Neotrombicula vulgaris (Schluger, 1955) [L]

- GBIF [https://www.gbif.org/species/4541093]

Materials

a. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Rot from decaying tree trunk; recordNumber: 3 L; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3072; decimalLongitude: 7.3422; samplingProtocol: T; eventDate: 19/08/2001; habitat: Soil; recordNumber: 1 L; recordedBy: MG, GM

c. county: NOR-Sogn og Fjordane; locality: Kroken; verbatimElevation: 50; decimalLatitude: 61.3403; decimalLongitude: 7.3967; samplingProtocol: T; eventDate: 19/08/2001; habitat: Soil at the base of elm tree; recordNumber: 5 L; recordedBy: MG, GM

d. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 30/08/2005; habitat: Common nettle, cockfoot, tufted hair grass, litter; recordNumber: 1 L; recordedBy: MG

Distribution: New for Norway.
Genus *Hannemania* Oudemans, 1911

**Distribution:** Sweden (Sellnick 1949).

**Notes:** Only nymph of *Hannemania* recorded (Sellnick 1949) and no recent occurrences since then. Identification questionable.

Family Trombidiidae Leach, 1815

Subfamily Allothrombiinae Thor, 1935

*Allothrombium fuliginosum* (Hermann, 1804) [PL, L]

- GBIF [http://www.gbif.org/species/4540875](http://www.gbif.org/species/4540875)

**Materials**

a. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Soil; recordNumber: 1 DN; recordedBy: MG

b. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6008; samplingProtocol: U; eventDate: 05/09/2007; habitat: Stone wall covered with moss, very dry; recordNumber: 1 AD; recordedBy: JL

c. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6008; samplingProtocol: U; eventDate: 10/09/2007; habitat: Stone wall covered with moss, very dry; recordNumber: 10 ♂, 16 AD, 5 DN; recordedBy: JL

**Distribution:** Norway (Thor 1900b, Haitlinger 2000), Sweden (Andersén 1863) and Finland (Krogerus 1960, Mąkol et al. 2006).

Subfamily Paratrombiiinae Feider, 1959

*Paratrombium insulare* (Berlese, 1910) [PL, L]

- GBIF [http://www.gbif.org/species/4540766](http://www.gbif.org/species/4540766)

**Distribution:** Norway (Mąkol and Gulvik 2002) and Finland (Mąkol 2000b, Mąkol et al. 2006).

Subfamily Trombidiinae Leach, 1815
Trombidium brevimanum (Berlese, 1910) [PL, L]

- GBIF [http://www.gbif.org/species/4540853](http://www.gbif.org/species/4540853)

**Distribution:** Norway (Berlese 1912) and Finland (Nordberg 1936, Mąkol et al. 2006).

Trombidium geniculatum (Feider, 1955) [PL, L]

- GBIF [http://www.gbif.org/species/4540844](http://www.gbif.org/species/4540844)

**Materials**

a. **county:** NOR-Vestfold; **locality:** Larvik, Bøkeskogen; verbatimElevation: 50; decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 1 ♂; recordedBy: MG

b. **county:** SWE-Uppsala; **locality:** Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 - 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

**Distribution:** Norway (Mąkol and Gulvik 2002) and new for Sweden.

Trombidium heterotrichum (Berlese, 1910) [PL]

- GBIF [http://www.gbif.org/species/4540829](http://www.gbif.org/species/4540829)

**Distribution:** Norway (Berlese 1910) and Finland (Mąkol 2003).

Trombidium holosericeum (Linnaeus, 1758) [PL, L]

- GBIF [http://www.gbif.org/species/4540860](http://www.gbif.org/species/4540860)

**Materials**

a. **county:** SWE-Jönköping; **locality:** Jönköping, Shore of Lake Vättern; verbatimElevation: 100; decimalLatitude: 57.7933; decimalLongitude: 14.2565; samplingProtocol: U; eventDate: 09/06/2013; habitat: Maple and birch copse on shore, sand, leaf, bryophytes; recordNumber: 3 PL; recordedBy: JS, MF, RH

b. **county:** SWE-Uppsala; **locality:** Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 - 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

**Distribution:** Norway (Thor 1900b, Haitlinger 2000, Mąkol and Gulvik 2002), Sweden (Linnaeus 1758, de Geer 1778, Sellnick 1958) and Finland (Nordberg 1936, Krogerus 1960, Mąkol and Wohltmann 2000, Mąkol et al. 2006).

**Notes:** *Acarus parasiticus* de Geer, 1778 is a junior synonym.
Trombidium latum C.L. Koch, 1837 [PL, L]

- GBIF [http://www.gbif.org/species/4540816](http://www.gbif.org/species/4540816)

Materials

a. **county:** NOR-Buskerud; **locality:** Ørgenvika; **verbatimElevation:** 150; **decimalLatitude:** 60.2858; **decimalLongitude:** 9.6878; **samplingProtocol:** T; **eventDate:** 06/06/2001; **habitat:** Soil, litter; **recordNumber:** 1 ♀; **recordedBy:** MG

b. **county:** NOR-Hordaland; **locality:** Skreidi, between Vaksdal and Fossmarki; **verbatimElevation:** 52; **decimalLatitude:** 60.4939; **decimalLongitude:** 5.7339; **samplingProtocol:** T; **eventDate:** 06/07/2001; **habitat:** Humus; **recordNumber:** 1 AD; **recordedBy:** MG

c. **county:** NOR-Sogn og Fjordane; **locality:** Grinde; **verbatimElevation:** 50; **decimalLatitude:** 61.1847; **decimalLongitude:** 6.7406; **samplingProtocol:** T; **eventDate:** 12/11/2000; **habitat:** Rot from tree trunk; **recordNumber:** 1 DN; **recordedBy:** MG

d. **county:** NOR-Sogn og Fjordane; **locality:** In the vicinity of Skjolden; **verbatimElevation:** 60; **decimalLatitude:** 61.4458; **decimalLongitude:** 7.4661; **samplingProtocol:** T; **eventDate:** 08/05/2002; **habitat:** Litter, soil, moss; **recordNumber:** 1♂, 2 AD, 1 DN; **recordedBy:** MG

e. **county:** NOR-Sogn og Fjordane; **locality:** Luster; **verbatimElevation:** 120; **decimalLatitude:** 61.1847; **decimalLongitude:** 6.7406; **samplingProtocol:** T; **eventDate:** 13/05/2002; **habitat:** Litter; **recordNumber:** 2 AD; **recordedBy:** MG

f. **county:** NOR-Sogn og Fjordane; **locality:** In the vicinity of Opptun; **verbatimElevation:** 600; **decimalLatitude:** 61.4978; **decimalLongitude:** 7.7492; **samplingProtocol:** T; **eventDate:** 26/04/2005; **habitat:** Litter; **recordNumber:** 1 AD; **recordedBy:** MG

g. **county:** NOR-Sogn og Fjordane; **locality:** Mørkri, in the vicinity of Skjolden; **verbatimElevation:** 150; **decimalLatitude:** 61.5567; **decimalLongitude:** 7.6094; **samplingProtocol:** T; **eventDate:** 17/09/2007; **habitat:** Meadow with trees, rot from decaying elm tree trunk; **recordNumber:** 1 AD; **recordedBy:** MG

h. **county:** NOR-Sogn og Fjordane; **locality:** Between Opptun and Fortun; **verbatimElevation:** 600; **decimalLatitude:** 61.4978; **decimalLongitude:** 7.7492; **samplingProtocol:** T; **eventDate:** 11/09/2007; **habitat:** Soil, moss, wet ground; **recordNumber:** 1 AD, 1 DN; **recordedBy:** MG

i. **county:** NOR-Sogn og Fjordane; **locality:** In the vicinity of Skjolden; **verbatimElevation:** 75; **decimalLatitude:** 61.4994; **decimalLongitude:** 7.6094; **samplingProtocol:** T; **eventDate:** 09/12/2006; **habitat:** House garden, decaying plants; **recordNumber:** 1 DN; **recordedBy:** MG, MW

j. **county:** NOR-Sogn og Fjordane; **locality:** In the vicinity of Skjolden; **verbatimElevation:** 75; **decimalLatitude:** 61.4992; **decimalLongitude:** 7.6094; **samplingProtocol:** U; **eventDate:** 11/09/2007; **habitat:** Alder trees by the river, grass, moss, damp soil; **recordNumber:** 1 AD; **recordedBy:** JL

k. **county:** NOR-Sogn og Fjordane; **locality:** Skjolden; **verbatimElevation:** 25; **decimalLatitude:** 61.4903; **decimalLongitude:** 7.6014; **samplingProtocol:** U; **eventDate:** 17/09/2007; **habitat:** Birch and pine trees surrounded by buildings, soil; **recordNumber:** 1 DN; **recordedBy:** JL

l. **county:** NOR-Sogn og Fjordane; **locality:** Skjolden; **verbatimElevation:** 25; **decimalLatitude:** 61.4933; **decimalLongitude:** 7.6081; **samplingProtocol:** U; **eventDate:** 17/09/2007; **habitat:** Birch and pine trees surrounded by buildings, soil; **recordNumber:** 1 DN; **recordedBy:** JL
m. county: NOR-Vestfold; locality: In the vicinity of Nalum; verbatimElevation: 50; decimalLatitude: 58.9894; decimalLongitude: 9.9853; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG
n. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 - 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 1 L; recordedBy: SMTP

**Distribution:** Norway (Małkol 2002, Małkol and Gulvik 2002), Sweden (Andersén 1863) and Finland (Małkol et al. 2006).

**Trombidium mediterraneum** (Berlese, 1910) [PL, L]

- **GBIF** [http://www.gbif.org/species/4540833](http://www.gbif.org/species/4540833)

**Materials**

a. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG
b. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter, undergrowth; recordNumber: 10 L; recordedBy: MG
c. county: NOR-Buskerud; locality: Ørgenvika; verbatimElevation: 150; decimalLatitude: 60.2858; decimalLongitude: 9.6878; samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter, soil; recordNumber: 1 AD, 1 DN; recordedBy: MG
d. county: NOR-Hordaland; locality: Skreidi, between Vaksdal and Fossmarki; verbatimElevation: 50; decimalLatitude: 60.4939; decimalLongitude: 5.7339; samplingProtocol: T; eventDate: 06/07/2001; habitat: Moss, soil, humus; recordNumber: 1 DN; recordedBy: MG

**Distribution:** Norway (Judson and Małkol 2011).

**Trombidium rimosum** C. L. Koch, 1837 [PL]

- **GBIF** [http://www.gbif.org/species/4540852](http://www.gbif.org/species/4540852)

**Distribution:** Sweden (Sellnick 1949) and Finland (Małkol et al. 2006).

**Notes:** Sericothrombium meyeri Krausse, 1916 is a junior synonym (Małkol 2005).

**Discussion**

Our study is part of the Swedish Taxonomy Initiative (STI) - one of the most ambitious All Taxa Biodiversity Inventories (ATBI) in the world (Ronquist and Gärdenfors 2003). One of the pillars in STI is to support taxonomic research on the most neglected taxonomic groups with the aim of raising the basic level of knowledge. For poorly known groups, the first step is an inventory resulting in a checklist of species. While doing so, it is also beneficial to
make available and publish the primary data. There are many reasons for this: facilitate the re-use of biological data, facilitate integration with other datasets and increase the potential for interdisciplinary research, transparency and increased quality of science, citability, credit and monitoring use of collection data (Chavan and Penev 2011, Penev et al. 2011). This is becoming increasingly recognised by funding agencies and national governmental organisations in many countries.

The higher diversity, 80 species, for Norway is likely a result of the comparatively larger effort (71% of all visited localities were in Norway) and more recent studies (Makol and Gulvik 2002). The Norwegian non-marine arthropod fauna is commonly a smaller subset of the Swedish fauna, lacking more southern species occurring in Sweden. For some groups, however, Norway may instead house more oceanic or arctic species. Apart from collecting effort, the different number of species-level taxa, as well as species composition observed in Sweden, Finland and Norway, may also be due to biogeographical factors, landscape architecture and actual variety of biotopes. Solhøy et al. (1975) pointed to the decreasing tendency observed in the number of species along the gradient between the eastern and north-eastern territories of Finland, covered with continental tundra and towards alpine tundra influenced by Atlantic climate in Norway. Finland often also lacks some southern species occurring in Sweden, but instead may have eastern fauna elements not occurring in either Sweden or Norway. Even in Norway, the geographical area visited was quite limited, with most effort being spent in the county Sogn og Fjordane. Due to the intense collecting effort in different microhabitats, many species were recorded. Although the fauna is expected to be still more diverse due to the unsampled counties, the majority of species are only known from either larvae or active postlarval forms, which can contribute to some overestimations. Nevertheless, with the current classification, we predict that, if the same effort as in Norway was made in Sweden, over 80 species could be recorded in Sweden alone. The most frequent species was Calyptostoma velutinum (Müller, 1776), which was collected 70 times. The high number of observations occurring throughout the season may be due to the specific biology and phenology of Calyptostoma sp. reflected in synchronous occurrence of active life instars or it may reflect the occurrence of a species complex as suggested by Wohltmann et al. (1999). A DNA Barcoding effort of terrestrial Parasitengona mites could significantly help charting the diversity in Fennoscandia, reveal overlooked species or identify species complexes.

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