

New or interesting lichens and lichenicolous fungi from Belgium, Luxembourg and northern France. XIII.

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Abstract. Studies of large and mainly recent collections of lichens and lichenicolous fungi led to the addition of 25 taxa to the flora of Belgium, Luxembourg and northern France: *Absconditella lignicola*, *Acarospora helvetica*, *Anema suffruticosum*, *Arthonia xanthoparmeliarum* (also new to Europe), *Clypeococcum cladonema*, *Hainesia xanthoriae*, *Julella fallaciosa*, *Lecania croatica*, *Lempholemma botryosum*, *Leptorhaphis atomaria*, *Melaspilea proximella*, *Merismatium decolorans*, *M. nigritellum*, *Parmeliopsis hyperopta*, *Psammina inflata*, *Psorotrichia frustulosa*, *Pterygiopsis affinis*, *Ramonia chrysophaea*, *Reconditella physconiarum*, *Rhizocarpon infernulum* f. *sylvaticum*, *Sarcopyrenia cylindrospora*, *Stigmidium cladoniicola*, *Thelocarpon impressellum*, *T. magnussonii* and *T. saxicola*. Eight additional taxa are reported in recent publications: *Arthonia protoparmeliopseos*, *A. varians*, *Biatora ligni-mollis*, *Caloplaca arnoldii* subsp. *obliterata*, *C. pusilla*, *Lecanora bandolensis*, *L. helicopis* and *Ochrolechia bahusiensis*. *Neocoleroa inundata* and *Pachyphiale fagicola* are newly reported for Belgium, and *Absconditella delutula*, *Bacidia circumspecta*, *Chaenotheca chlorella*, *Cyrtidula quercus*, *Epigloea filifera*, *E. renitens*, *Lecania cyrtellina*, *Merismatium heterophractum*, *Nectriopsis micareae*, *Parmelina quercina*, *Phaeocalcium populneum*, *Ramonia interjecta*, *Sclerococcum griseisporodochium* and *Thelopsis rubella*, for Luxembourg.

1. Introduction

This paper continues the series of notes on the flora of lichens and lichenicolous fungi in Belgium, Luxembourg and northern France (Diederich & Sérusiaux 2000). It further includes the most recent updates regarding nomenclature and taxonomy of the species present in our study area.

The present paper focuses on species collected by the first two authors in four Luxembourg forest reserves. The following abbreviations are used in the text: "Laangmuer" refers to the Réserve forestière intégrale (RFI) 25 near Niederanven (IFBL: L8.57; inventory done in 2008, Eichler & Cezanne 2009), "Beetebuerger Bësch" to RFI 31 near Bettembourg

(M8.34, M8.35; 2009), "Enneschte Bësch" to RFI 29 near Leudelange (M8.24; 2009) and "Grouf" to RFI 32 near Schengen (M9.51; 2010). Specimens from these four forests are abbreviated using letters L (for Laangmuer), B (Beetebuerger Bësch), E (Enneschte Bësch) and G (Grouf), followed by the collecting number. All specimens collected during this inventory are kept in the private herbarium of P. Diederich. In the enumeration of specimens, the abbreviation 'h' refers to the private herbarium of the collector. The term "checklist" is used for the checklist of lichens and lichenicolous fungi in Belgium, Luxembourg and northern France (Diederich et al. 2010).

2. Survey of other publications on the lichen flora and vegetation of the study area

Boulanger et al. (2009) published a report from a lichenological excursion done in the Boulonnais (France, Pas-de-Calais) in 2008. Several species not previously accepted in the checklist were mentioned. In a supplement to this first paper, Boulanger et al. (2010) gave additional information on some rare or problematic taxa. *Arthonia varians* (Ach.) Nyl., a species usually growing on the saxicolous *Lecanora rupicola* (incl. *L. bicincta*) (Grube 2007), although reported from other hosts, such as *L. actophila* (Clauzade et al. 1989) and *L. helicopis* (Wahlenb.) Ach. (Ihlen & Wedin 2008), is reported from *Lecanora helicopis* (Boulanger et al. 2010) and is new to the checklist area. The host, *Lecanora helicopis*, is as well new to the checklist area. *Diplotomma glaucoastrum* (Nyl.) is a non-validly published new combination of *Buellia glaucoatra* (Nyl.) Clauzade; this species is considered as a synonym of *D. alboastrum* (Hoffm.) Flot. by Nordin (2000), but as a distinct species by Roux (pers. comm.), distinguished by a thicker thallus and the occurrence on coastal rocks; Boulanger et al. (2009, 2010) state that the species has been observed in 1989 near cap Griz-Nez, but in the absence of any reference specimens it is wise to consider this report as doubtful. The report by Boulanger et al. (2009) of *Lecania aipospila* (Wahlenb.) Th.Fr. is not supported by any herbarium specimen and therefore has to be removed from the checklist (Boulanger et al. 2010); a previous Boulonnais record of this species (Van den Broeck et al. 2009) proved to represent *L. cf. fructigena* (Diederich et al. 2009). Boulanger et al. (2009: 175, 181) doubtfully reported *Lecanora ripartii* Lamy (they hesitated between *L. ripartii* and *L. atrynea*, the latter being a morphotype of *L. cenisia*), illustrated by a photograph done near cap Griz-Nez; later, Boulanger et al. (2010) stated that this was a misidentification for *L. campestris* (Schaer.) Hue. *Opegrapha trifurcata* Hepp, keyed out by Clauzade & Roux (1985), might be identi-

cal to the Boulonnais material published by Sparrius et al. (2002) as *Opegrapha saxatilis* DC. s.l.; a more detailed study of this group is urgently needed; following Roux (pers. comm.), the type of *O. saxatilis* [kept in G] belongs to the lichenicolous *O. rupestris* Pers., whilst the type of *O. trifurcata* is a species closely related to *Arthonia atra* (Pers.) A.Schneid. *Xanthoria aureola* (Ach.) Erichsen has never been correctly reported from the Boulonnais; the recent report by Van den Broeck et al. (2009) proved to be more strongly pigmented *X. parietina*; the report by Boulanger et al. (2009) is unfortunately not sustained by any herbarium specimen (Boulanger pers. comm.), all specimens collected belonging to *X. calcicola* or *X. parietina* (Boulanger et al. 2010).

Hellemans & Stappaerts (2009) discovered *Stereocaulon pileatum* on a brick wall as new to Flanders.

Van den Broeck et al. (2009) presented the report from a lichenological excursion done in 2008 near De Panne (Belgium, Mar. and Brab.). Many species are new records for Flanders or for the Maritime or Brabant phytogeographical districts. Further reports from excursions in Flanders refer to the surrounding of Mol (Van den Broeck 2009a), Balen and Meerhout (Van den Broeck 2009b), Tongerlo (Van den Broeck & Hellemans 2009) and Serskamp (Stieperaere & Van den Broeck 2009).

Bertrand et al. (2010) present a remarkable revision of the poorly known *Lecanora bandolensis* B. de Lesd. This species belongs to the *L. dispersa* group and is confined to coastal rocks. The authors have studied a specimen from our study area, collected in 1989 near Cap Gris-Nez by C. Van Halwyn. We have examined an additional specimen (France, Mar., Pas-de-Calais, entre Ambleteuse et Wimereux, rochers au bord de la mer à 600 m au N de la Pointe aux Oies, E22.35, alt. 5 m, rochers de grès émergés en permanence, 2000, P. Diederich 14444, h).

Sérusiaux et al. (2010) report the discovery of *Biatora ligni-mollis* T. Sprib. & Printzen from Belgium (Ard.), where it was collected on an old *Quercus* in the forêt d'Anlier.

3. Taxonomical and nomenclatural changes

Jørgensen (2007) suggests that the correct name for *Synalissa symphorea* auct. is *S. ramulosa* (Hoffm. ex Bernh.) Fr.

Baloch et al. (2009) show that *Bryophagus* is a synonym of *Cryptodiscus*, and consequently they propose the new combination *C. gloeocapsa* (Arnold) Baloch, Gilenstam & Wedin for *B. gloeocapsa* Arnold.

Etayo & Diederich (2009) describe *Arthonia protoparmeliopseos* Etayo & Diederich, lichenicolous on *Protoparmeliopsis* (= *Lecanora muralis*), from Spain and Luxembourg (Lorr.).

Gaya (2009) revised the *Caloplaca saxicola* group. Three species are reported from our checklist area: *C. arnoldii* subsp. *obliterata* (Pers.) Gaya (from Luxembourg, Ard.), *C. pusilla* (A.Massal.) Zahlbr. (from France, Mar.) and *C. saxicola* (Hoffm.) Nordin (from France, Mar.), the two former being new for our checklist. A revision of the entire material from our study area still remains to be done.

Petractis hypoleuca (Ach.) Vězda is better included in *Gyalecta*, as *G. hypoleuca* (Ach.) Zahlbr. (Gilbert et al. 2009).

Kukwa (2009) reports *Ochrolechia bahusiensis* H.Magn. from Luxembourg. This corresponds to *O. androgyna* C sensu Tønsberg (1992). The species is not rare in Luxembourg, but a study of the entire material of *O. androgyna* s.lat. from our area of study remains to be done.

Orange et al. (2009) consider that *Verrucaria acrotella* auct., recently accepted as a distinct species, mainly by Dutch authors, is a synonym of *V. murina* auct.

Roux (2009) explains that the name *Zwackhiomyces immersus* (Arnold) Grube & Triebel should be replaced by the earlier *Z. socialis* (Körb.) Cl.Roux. That species appears to be confined to *Clauzadea* species. The material from our checklist area, which only occurs on *Bacidia bagliettoana*, might represent a distinct species.

The new combination *Llimoniella terricola* (Rehm ex Arnold) M.Schultz, Diederich & Ertz is proposed for the species previously named *Gelatinopsis leptogii* Ertz & Diederich (Diederich et al. 2010), of which the type is lichenicolous on *Epiphloea byssina* in Belgium.

Although Spier & Aptroot (2007) suggested *Cladonia rei* Schaer. to be a synonym of *C. subulata* (L.) F.H.Wigg., Dolnik et al. (2010) demonstrate that these are two phylogenetically distinct species, easily recognized by the presence or absence of homosekikaic acid.

Fryday & Lendemer (2010) transfer *Catillo-chroma pulvrea* (Borrer) Kalb to *Megalaria*, as *M. pulvrea* (Borrer) Hafellner & E. Schreiner.

Hauck & Wirth (2010) combined several *Bacidia* species in *Bacidina*, amongst which the following are known from our study area: *Bacidina adasta* (Sparrius & Aptroot) M.Hauck & V.Wirth, *B. brandii* (Coppins & van den Boom) M.Hauck & V.Wirth, *B. saxenii* (Erichsen) M.Hauck & V.Wirth and *B. sulphurella* (Samp.) M.Hauck & V.Wirth.

Kocourková & Knudsen (2010) show that the fungus on *Pertusaria lactea* frequently called *Stigmidium aggregatum* (Mudd) D.Hawksw. has to be called *S. euclina* (Nyl.) Vězda.

Nordin et al. (2010) present a phylogenetic analysis of *Aspicilia* and *Megasporaceae*. Several *Aspicilia* species present in our study area are transferred to the genus *Circinaria*: *C. caesiocinerea* (Malbr.) A.Nordin, S.Savić & Tibell, *C. calcarea* (L.) A.Nordin, S.Savić & Tibell, *C. contorta* (Hoffm.) A.Nordin, S.Savić & Tibell and *C. gibbosa* (Ach.) A.Nordin, S.Savić & Tibell, as well as *C. cupreogrisea* (Th.Fr.) A.Nordin, S.Savić & Tibell, a species reported as occurring doubtfully in this area. *Aspicilia recedens* (Taylor) Arnold is transferred to *Lobothallia*, as *L. recedens* (Taylor) A.Nordin, S.Savić & Tibell. *Aspicilia cinerea* (L.) Körb., the generic type, is the only species from our study area remaining with certainty in *Aspicilia*, while *A. aquatica* Körb. and *A. contorta* subsp. *hoffmaniana* S.Ekman & Fröberg have not been discussed in that paper. As some of these genera are poorly distinguished using morphological characters, and as the type of *Aspicilia* subgen. *Pachyothallia* was not included in the molecular analysis, we prefer to await additional studies, including more species, before accepting all these changes.

Timdal (2010) describes the new genus *Porpidinia* for the species *Toninia tumidula*, with the new combination *P. tumidula* (Sw.) Timdal.

4. New or interesting reports

Absconditella delutula (Nyl.) Coppins & H.Kilias

Luxembourg, Lorr.: Laangmuer, on sandstone pebbles, L7449, L7469; on dead wood, L7470; Grouf, on dead wood of *Picea*, G10.

This species was known from Belgium (Ertz et al. 2008, Sérusiaux et al. 2006) and is here reported as new to Luxembourg.

Absconditella lignicola Vězda & Pišút

Luxembourg, Lorr.: Beetebuerger Bësch (M8.35), on *Picea* wood, B1; Grouf, on dead wood of *Fagus*, G11.

A rarely collected, but probably more widespread and much overlooked species that is new to the checklist area.

Acarospora helvetica H.Magn.

Luxembourg, Lorr.: N of Folkendange, Brouderbur (K8.56), on a sandstone rock, 1981, P. Diederich 3423 (h).

France, Mosan: Ardennes, Chooz, rochers de Petit-Chooz sur la rive droite de la Meuse, face au pont (J5.35), affleurement de roches de l'Emsien supérieur (Grauwacke de Hierges), schistes argilo-calcaires, facilement décalcifiés, 1999, P. Diederich 16306 (h).

This species was included within the concept of *A. complanata* H.Magn. by Clauzade & Roux (1982), but has recently been recognized as a distinct taxon (Roux 2007). It is new to the checklist area. Both specimens have been identified by C. Roux.

Anema suffruticosum P. Moreno & Egea

France, Mosan: Ardennes, Givet, rive gauche de la Meuse à la sortie amont de la ville, sous le fort

de Charlemont (J5.25), affleurements de calcaires compacts du Givetien sur flanc sud avec suintements d'eau temporaires, 1999, P. Diederich 15693 (h).

A very rare Mediterranean species, initially described from SE Spain (Moreno & Egea 1992), later also discovered in France (Var) (Roux et al. 2003) and Italy (Nimis & Tretiach 2004). Although our material has been identified by M. Schultz as *A. cf. suffruticosum*, we accept this identification as it is the best hypothesis with our current knowledge on the taxonomy of this difficult group. The species is new to our checklist area.

Arthonia xanthoparmeliarum Etayo

Luxembourg, Ard.: Bourscheid, along road to Ettelbruck, near Michelau, W exposed schistose outcrops along road (K8.45), on *Xanthoparmelia conspersa*, 2002, P. & B. van den Boom 29888 (h).

This lichenicolous ascomycete was described from Chile on saxicolous *Xanthoparmelia* (Etayo & Sancho 2008) and has also been reported from the U.S.A. (California) by Kocourková (2009). It is new to Europe.

Arthopyrenia salicis A.Massal.

Luxembourg, Lorr.: Enneschte Bësch, on young *Fraxinus* by a pond, E3, P. Diederich 16811 (h); Beetebuerger Bësch, on young *Fraxinus* and *Quercus*, field observation; Grouf, on young *Fraxinus*, field observation.

This rare species was previously known from one Luxembourg locality (Ard.) on *Carpinus* along a stream (Sérusiaux et al. 1999).

Bacidia circumspecta (Vain.) Malme

Luxembourg, Lorr.: Laangmuer, on the base of *Fagus*, L7457.



Fig. 1. *Anema suffruticosum*, a very rare Mediterranean lichen, discovered in northern France (Ardennes) (Diederich 15693). Scale bar = 0.5 mm.



Fig. 2. *Hainesia xanthoriae*, a probably widespread, but overlooked lichenicolous fungus, usually growing on *Xanthoria parietina* (Diederich 16955). Scale bar = 0.5 mm.

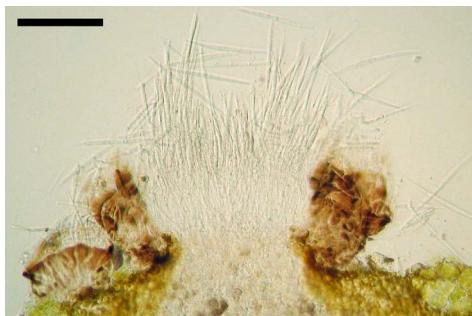


Fig. 3. *Hainesia xanthoriae*, section through conidioma, showing hyaline, acicular conidia (Diederich 16955). Scale bar = 50 µm.

A relatively rare species, known from a few Belgian localities (Ertz et al. 2008) and reported here as new to Luxembourg.

Chaenotheca chlorella (Ach.) Müll.Arg.

Luxembourg, Lorr.: Beetebuerger Bësch (M8.34, M8.35), on *Fagus* wood, B12, B13.

New to Luxembourg.

Clypeococcum cladonema (Wedd.) D.Hawksw.

Belgium, Mosan: Rouillon, les Tiennes de Rouillon (H5.16), on an exposed siliceous rock, on *Xanthoparmelia loxodes*, 2008, D. Ertz 12230 (BR).

A lichenicolous pyrenomycete, initially described from *Xanthoparmelia* species with a brown thallus, later also recorded on thalli of *Cetrelia* (e.g., Hafellner 1995). New to the checklist area.

Collema fragile Taylor

Belgium, Mosan: Anseremme, Roches de Freyr, au sommet de l'affleurement (H5.57), 2009, D. Ertz 15196 (BR); Dinant, à l'ouest d'Anseremme, Rochers de Moniat (H5.47), 2009, D. Ertz 15232 & J.-P. Duvivier (BR); Anseremme, anc. Prieuré, cemetery (H5.47), on the ground with *Leptogium teretiusculum*, 2009, D. Van den Broeck 3291 (h).

This species was reported as new to Belgium by Ertz et al. (2008), based on a 1962 collection. Several recent specimens confirm that the species still exists in Belgium (Mosan).

Cyrtidula quercus (A.Massal.) Minks

Luxembourg, Lorr.: Beetebuerger Bësch (M8.34), on branches of young *Quercus*, B19; Enneschte Bësch, on branches of *Quercus*, E20; Grouf, on

branches of *Populus*, G12, on branches of young *Quercus*, G13.

A non-lichenized species, although mainly studied by lichenologists, probably often overlooked. New to Luxembourg.

Epigloeä filifera Döbbeler

Luxembourg, Lorr.: Laangmuer, on bark of fallen *Picea*, L7388.

A doubtfully lichenized, algicolous fungus, previously known from Belgium (Ard.) (Sérusiaux et al. 1999). New to Luxembourg.

Epigloeä renitens (Grummann) Döbbeler

Luxembourg, Lorr.: Laangmuer, on soil and plant debris, L7458; Grouf, on dead wood, G14.

Another algicolous species that was previously known in our study area from one locality in Belgium (Mosan) (Sérusiaux et al. 2003). New to Luxembourg.

Hainesia xanthoriae Brackel

Luxembourg, Lorr.: Lorentzweiler (L8.46), on *Syringa* in a garden, on *Xanthoria parietina*, 2010, P. Diederich 16906 (h); Bertrange, Trossenberg (M8.14), on branches of *Fraxinus*, on *X. parietina*, 2010, P. Diederich 16934 (h); N of Strassen (M8.14), on branches of *Fraxinus*, on *X. parietina*, 2010, P. Diederich 16959 (h).

This recently described lichenicolous anamorphic fungus, previously known from Germany and Greenland, mainly develops on thalli and apothecia of *Xanthoria* species (Brackel 2009). The repeated discovery in villages suggests that it must be widespread and

probably rather common, but overlooked. The species is new to the checklist area.

***Julella fallaciosa* (Arnold) R.C.Harris**

Luxembourg, Lorr.: Grouf, on branches of *Fagus*, G15, G21.

A probably non-lichenized species, although frequently studied by lichenologists. New to the checklist area.

***Lecania croatica* (Zahlbr.) Kotlov**

= *Catillaria croatica* Zahlbr.

Belgium, Mosan: Eprave, SW of Bois de Noulaiti, left side of the river Lomme (J6.24), disturbed woodland along the river, with *Ulmus laevis* and including *Populus* plantations, 1997, E. Sérusiaux (LG); Waulsort, left bank of the Meuse, Fond des Vaux, "Petit Bois" (H5.56), mixed woodland with boles of *Quercus*, with a dense *Buxus* understory in a small, rather deep valley, on *Tilia*, 1994, P. Diederich 4982 (h) & E. Sérusiaux (LG). Ard.: S of Neufchâteau, Rossignol, centre of village (L7.11), on *Fraxinus* in parkland, 2006, P. van den Boom 37074 (h).

Luxembourg, Lorr.: Beetebuerger Bësch (M8.34, M8.35), on *Fagus*, B63, B68; on *Sambucus*, B70; Enneschte Bësch, on *Carpinus*, E58; on *Acer campestre*, E59; on *Fraxinus*, E60, E61; Grouf, on *Acer campestre*, G16.

France, Lorr.: Dépt. Meuse, S de Montmédy, entre Iré-les-Prés et Iré-le-Sec, bois de Juvigny (M6.58), frênaie-aulnaie de fond de vallée, sur *Corylus*, 1989, E. Sérusiaux 10407-b (LG).

This is a very inconspicuous, generally sterile, corticolous lichen with a sorediate thallus that might often have been overlooked. It was previously known from several Central or Eastern European countries and from the U.S.A. (Cezanne et al. 2008, Hafellner et al. 2005, Harris & Lendemer 2010). The species is new to the checklist area. The identification of several Luxembourg specimens has kindly been confirmed by C. Printzen.

***Lecania cyrtellina* (Nyl.) Sandst.**

Luxembourg, Lorr.: Enneschte Bësch, on *Acer campestre*, E7883; Laangmuer, on *Fagus*, L7509; Strassen, 400 m NE of Scouts home (M8.14), on *Sambucus*, 2009, P. Diederich 16814 (h, herb. van den Boom).

A relatively rare, probably frequently overlooked species. New to Luxembourg.

***Lempholemma botryosum* (A.Massal.) Zahlbr.**

France, Mosan: Ardennes, Givet, rive gauche de la Meuse à la sortie amont de la ville, sous le fort de Charlemont (J5.25), affleurements de calcaires compacts du Givetien sur flanc sud et avec suintements d'eau temporaires, mais fréquents, 1999, P. Diederich 15699 (h).

A rare cyanobacterial species, here reported as new to the checklist area. Material identified by M. Schultz.

***Leptorhaphis atomaria* (Ach.) Szatala**

Luxembourg, Lorr.: W of Bertrange, Houscht (M8.13), on branches of *Populus*, 2010, P. Diederich 16927 (h, BR, herb. Eichler-Cezanne).

This ascomycete is probably not or only facultatively lichenized, although usually associated with *Trentepohlia* (Aguirre-Hudson 1991). It was reported from Luxembourg by Koltz (1897: 310), but this was not accepted by Diederich & Sérusiaux (2000), as no specimen seems to exist in LUX. The species is therefore new to our study area.

***Melaspilea proximella* (Nyl.) Nyl.**

Luxembourg, Lorr.: Beetebuerger Bësch (M8.35), on old *Quercus*, B26; Laangmuer, on *Quercus*, L7453; Grouf, on *Quercus*, G17.

A facultatively lichenized fungus that is new to our checklist area.

***Merismatium decolorans* (Arnold) Triebel**

=? *Sphaerulina intermedia* Vouaux

Luxembourg, Ard.: Esch-sur-Sûre, ruins of old castle (K8.32), on *Leptogium gelatinosum* and *Agonimia tristicula*, 2002, P. Diederich 16786 (h).

The ascospores of this lichenicolous pyrenomycete were said to be pale to medium brown (Triebel 1989). In our specimen, they are more or less hyaline, almost surely as they are young and immature. Although the type of *Sphaerulina intermedia* Vouaux is lost, the original description (Vouaux 1913: 37) suggests that this represents a synonym of *M. decolorans* in which the ascospores were as well immature and therefore almost colourless (yellowish when old); that taxon was described from a thallus of "*Leptogium microscopicum*" in northern France (Mar.). The species is new to the checklist area.

Merismatium heterophractum (Nyl.) Vouaux
Luxembourg, Lorr.: Pétange, Prénzebierg (M8.31),
dans une pelouse de mousses et de *Cladonia* sur
roche, sur *Cladonia rei*, 2010, P. Diederich 16956
(h).

This lichenicolous pyrenomycete was known
from France (Lorr.) on *Bilimbia sabuletorum*
(Diederich et al. 1991). *Cladonia* is a new host
genus. The species is new to Luxembourg.

Merismatium nigritellum (Nyl.) Vouaux
= *Merismatium lopadii* (Anzi) Zopf
=? *Polyblastia gothica* Th. Fr.

France, Mosan: Ardennes, Chooz, rochers de
Petit-Chooz sur la rive droite de la Meuse, face au
pont (J5.35), schistes argilo-calcaieux, sur *Lepto-*
gium lichenoides, 1999, P. Diederich 16284 (h).

This lichenicolous species was reported
from Luxembourg by Diederich (1986)
as *M. lopadii*, based on two specimens on
Lecanora conizaeoides. Diederich & Séru-
siaux (2000) regarded this record as dubi-
ous, as the ascomata are smaller (c. 70 µm
diam.) than in typical *M. nigritellum* and
the ascospores narrower and with a lower
number of cells. The identity of these two
specimens requires further studies.

Diederich et al. (2009) published *Polyblastia*
gothica from Luxembourg, based on a speci-
men growing on soil between thalli of *Lepto-*
gium pulvinatum. Hafellner (2010) suggests
that *P. gothica* is almost surely a synonym
of *M. nigritellum*. The French specimen
cited above is lichenicolous on *Leptogium*
lichenoides. The ascospores are much paler
than in the Luxembourg specimen of *P.*
gothica, which might just reflect a different
degree of maturity of the ascomata, but for
the rest fits *M. nigritellum* perfectly. We pro-
pose therefore to accept *Merismatium*
nigritellum as occurring in our checklist area,
with *P. gothica* as a possible synonym.

Nectriopsis micareae Diederich, van den
Boom & G. Ernst

Luxembourg, Ard.: E of Clervaux, E of Roder,
Reiteschbierg, path S of brooklet Känelbaach
(J8.45), on exposed roots of *Picea*, on *Micarea*
viridileprosa, 2007, P. van den Boom 38300 (h).

This lichenicolous ascomycete is relatively
rare and appears to be confined to *Micarea*

viridileprosa. It was known from one local-
ity in Belgium (Camp.) and one in northern
France (Mar.) (Sparrius et al. 2002), and is
reported here as new to Luxembourg.

Neocoleroa inundata (Vain.) Diederich
Belgium, Fl.: E of Gent, centre of Lokeren (Oost-
Vlaanderen), old churchyard (C3.57), on *Bacidina*
caligans, 2010, P. van den Boom 44822 (h).

A rarely collected, but probably more wide-
spread lichenicolous ascomycete, here repor-
ted as new to Belgium.

Pachyphiale fagicola (Hepp) Zwackh
Belgium, Mosan: Waulsort (Hastière), village de
vacances de Waulsort, Sur le Pairy 1 (H5.56), on
Fraxinus, 2009, D. Van den Broeck 3337 (h).

A rare species, previously known from three
localities in Luxembourg and northern
France (Diederich et al. 2006, van den Boom
et al. 1994). New to Belgium.

Parmelina quercina (Willd.) Hale var. *quercina*
Luxembourg, Lorr.: Beetebuerger Bësch (M8.35),
on branch of *Fagus*, B41; Schifflange, parc près de
la mairie (M8.43), on *Acer*, 2009, D. Teuber 2939
(h) & J. Mersch; ibid., 2010, P. Diederich 17096 (h)
& J. Mersch.

The discovery of this species was completely
unexpected, as it was considered as extinct
in eastern Belgium since 1865 (Diederich &
Sérusiaux 2000). It has recently been found
several times in western Belgium (Diederich
et al. 2009). New to Luxembourg.

Parmeliopsis hyperopta (Ach.) Arnold
Luxembourg, Lorr.: Laangmuer, on *Fagus*, L7529.
This macrolichen is new to our checklist area.

Phaeocalicium populneum (Duby) A.Schmidt
Luxembourg, Lorr.: Grouf, on branches of *Popu-*
lus, G1.

This obviously rare species has recently been
discovered in Belgium (Ertz & Duvivier 2006)
and is here reported as new to Luxembourg.

Physcia leptalea (Ach.) DC.
Luxembourg, Lorr.: Enneschte Bësch, on branch
of *Fraxinus*, E39.

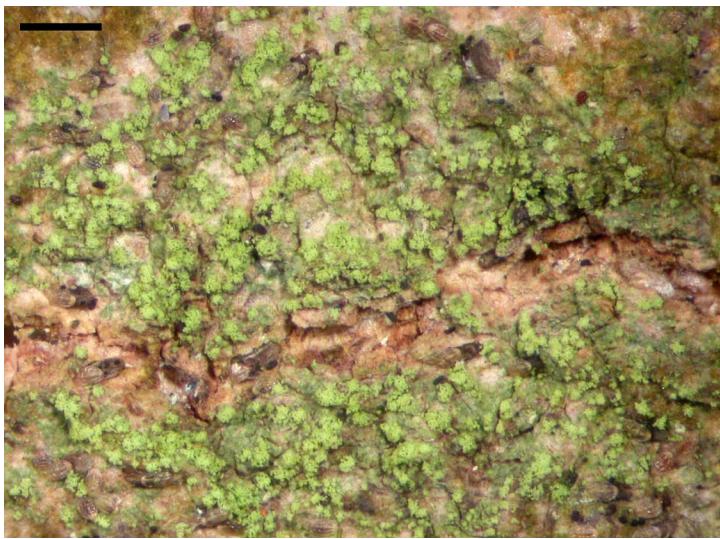


Fig. 4. *Lecania croatica*, an inconspicuous, often overlooked, frequently sterile, corticolous lichen species (G16). Scale bar = 1 mm.

The species was considered as extinct in Belgium and Luxembourg (Diederich & Sérusiaux 2000), but has recently been rediscovered in Luxembourg (Sérusiaux et al. 2003). This is the second recent collection in Luxembourg, suggesting that the species is spreading.

***Psammina inflata* Earl.-Benn. & D.Hawksw.**
Luxembourg, Lorr.: Grouf; on *Quercus*, in humid situation, on *Lepraria incana*, G2.

This rarely collected lichenicolous hyphomycete is new to the checklist area.

***Pterygiopsis affinis* (A.Massal.) Henssen**

France, Mosan: Ardennes, Givet, rive gauche de la Meuse à la sortie amont de la ville, sous le fort de Charlemont (J5.25), affleurements de calcaires compacts du Givetien sur flanc sud et avec suintements d'eau temporaires, mais fréquents, 1999, P. Diederich 15686 (h).

de Charlemont (J5.25), affleurements de calcaires compacts du Givetien sur flanc sud et avec suintements d'eau temporaires, mais fréquents, 1999, P. Diederich 15688 (h).

A rare Mediterranean species, here reported as new to our checklist area.

***Psorotrichia frustulosa* Anzi**

France, Mosan: Ardennes, Givet, rive gauche de la Meuse à la sortie amont de la ville, sous le fort

***Pterygiopsis affinis* (A.Massal.) Henssen**

France, Mosan: Ardennes, Givet, rive gauche de la Meuse à la sortie amont de la ville, sous le fort de Charlemont (J5.25), affleurements de calcaires compacts du Givetien sur flanc sud et avec suintements d'eau temporaires, mais fréquents, 1999, P. Diederich 15686 (h).

A rare Mediterranean species, here reported as new to our checklist area. The material has been identified by M. Schultz.

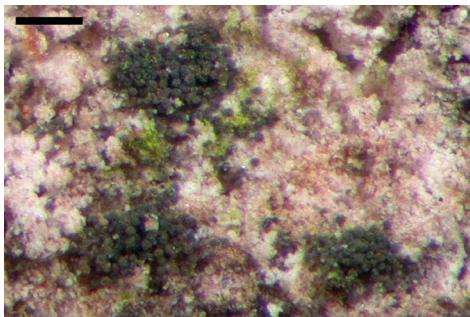


Fig. 5. *Psammina inflata*, a rare lichenicolous hyphomycete, collected in Luxembourg on dying thalli of *Lepraria incana* (G2). Scale bar = 0.2 mm.

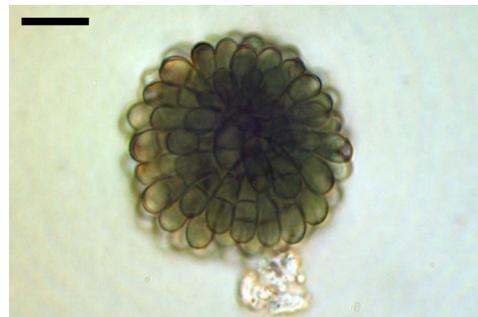


Fig. 6. Multicellular conidium of *Psammina inflata* (Germany, Hessen, Erfelden, 2009, on *Lepraria incana*, Cezanne-Eichler 7901). Scale bar = 10 µm.



Fig. 7. *Pterygiopsis affinis*, a rare Mediterranean lichen collected in northern France (Ardennes) (Diederich 15686). Scale bar = 1 mm.

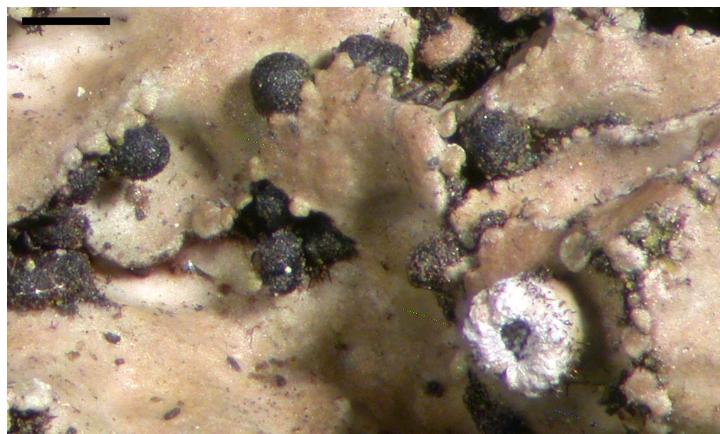


Fig. 8. *Reconditella physconiarum*, a lichenicolous ascomycete producing large perithecia on the thallus margin of *Physconia* species (Diederich 16955). Scale bar = 0.5 mm.

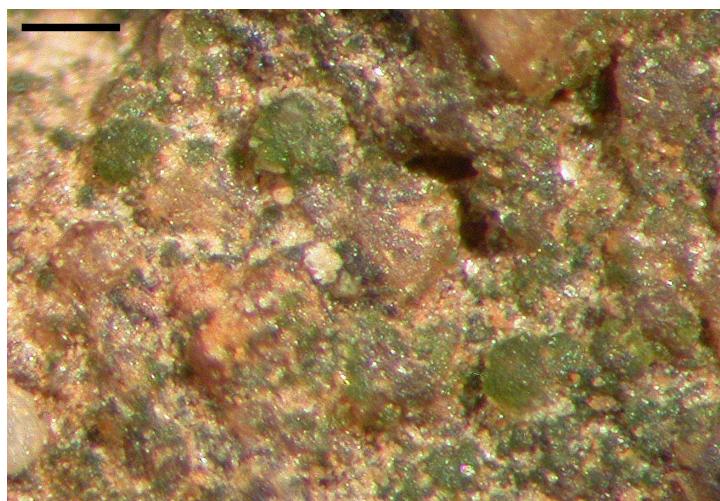


Fig. 9. *Thelocarpon magnussonii*, a minuscule, frequently overlooked lichen, collected twice on sandstone pebbles in Luxembourg (L7386). Scale bar = 0.2 mm.

Ramonia chrysophaea (Pers.) Vězda

Luxembourg, Lorr.: Beetebuerger Bësch (M8.34, M8.35), on dead bark of *Quercus*, B44.

A very rare or overlooked species, new to our checklist area.

Ramonia interjecta Coppins

Luxembourg, Lorr.: Enneschte Bësch, on *Sambucus nigra*, E44; Laangmuer, on *S. racemosa*, L7443.

A doubtfully lichenized species recently collected several times in Belgium on *Salix* and *Sambucus* (Sérusiaux et al. 2003, van den Boom & van den Boom 2006). New to Luxembourg.

Reconditella physconiarum Hafellner & Matzer

Luxembourg, Lorr.: Pétange, Prënzebierg (M8.31), on *Salix*, on *Physconia distorta*, 2010, P. Diederich 16955 (h).

A rare lichenicolous ascomycete, producing large, conspicuous, superficial perithecia along the margin of the host thallus. New to the checklist area.

Rhizocarpon infernulum (Nyl.) Lyngé f. *sylvaticum* Fryday

Belgium, Ard.: 6.5 km SW of Herbeumont, NE of Munro, Roche à l'Appel (L6.45), N and W exposed siliceous outcrops, 2006, P. & B. van den Boom 37175 (h).

This species is new to our checklist area, and the recently described forma (Fryday 2002) even new to Central Europe. It was previously known from the British Isles, Sweden and North America and is probably widespread, but overlooked in Europe.

Sarcopyrenia cylindrospora (P.Crouan & H.Crouan) M.B.Aguirre

France, Mosan: Ardennes, Chooz, rochers de Petit-Chooz sur la rive droite de la Meuse, face au pont (J5.35), affleurement de roches de l'Emsien supérieur (Grauwacke de Hierges), sur *Aspicilia*, 1999, P. Diederich 16291 (h).

A rarely collected lichenicolous ascomycete, usually growing over *Aspicilia* thalli (Navarro-Rosinés & Hladun 1990, 1992). New to our checklist area.

Sclerotococcum griseisporodochium Etayo

Luxembourg, Lorr.: Laangmuer, on vertical face of natural sandstone outcrop, L7541.

A rare saxicolous species, recently reported from Belgium (Mosan) by Ertz et al. (2008). New to Luxembourg.

Sphaerellothecium parietinarium (Linds.) Hafellner & V.John

Belgium, Mosan: Weillen, chapelle des Marronniers (H5.46), on wall of chapel, on *Xanthoria parietina*, 2008, D. Ertz 12204 & J.-P. Duvivier (BR).

A rare lichenicolous pyrenomycete confined to *Xanthoria* thalli, previously known from one Luxembourg collection on *X. calcicola* (van den Boom et al. 1996), here reported as new to Belgium.

Stigmidium cladoniicola Zhurb. & Diederich

Belgium, Ard.: 2.4 km SE of Herbeumont, forêt d'Herbeumont, 0.5 km SE of Anc. Prieuré de Conques (L6.25), outcrops in mixed sloping forest above Semois, on *Quercus*, on *Cladonia*, 2006, P. & B. van den Boom 37227 (h).

This recently described species was known only from the type locality in northern Ural, Russia, on *Cladonia macrophylla* Zhurbenko & Diederich (2008). It is new to the checklist area.

Thelocarpon epibolum Nyl.

Luxembourg, Lorr.: Beetebuerger Bësch (M8.34, M8.35), on calcareous stone, B52; on dead wood of *Fagus* B53, B54; Laangmuer, on dead wood of *Fagus*, L7510; Grouf, on dead wood of *Fagus*, G19.

The presence of this species in Luxembourg was considered as doubtful by Diederich & Sérusiaux (2000) and can herewith be definitely confirmed.

Thelocarpon impressellum Nyl.

Luxembourg, Lorr.: W Steinfort, berge de l'Eisch (L8.51), terricole, sur débris végétaux entre thalles de *Cladonia pocillum*, 2009, P. Diederich 16823 (h).

New to the checklist area.

Thelocarpon intermediellum Nyl.

Luxembourg, Lorr.: Enneschte Bësch, on dead wood of *Picea* and *Quercus*, E49, E50; Laangmuer, on sandstone pebble, L7518.

It is interesting to report these new finds of a rare species previously known only from a single collection in our area of study (Luxembourg, Ard.) (Diederich et al. 1988).

***Thelocarpon magnussonii* G.Salisb.**

Luxembourg, Lorr.: Laangmuer, on sandstone pebble, L7386; Grouf, on pebble, G20.

A very rare, minuscule lichen (e.g., Cezanne et al. 2008), probably more widespread or overlooked, reported here as new to our checklist area.

***Thelocarpon saxicola* (Zahlbr.) H.Magn.**

Luxembourg, Lorr.: Laangmuer, on sandstone pebble, L7373.

Another extremely rare species (e.g., Cezanne et al. 2008), also new to the checklist area.

***Thelopsis rubella* Nyl.**

Luxembourg, Lorr.: Grouf, on *Quercus*, G3.

This is an unexpected discovery of a particularly rare lichen species, covering large parts of an old *Quercus* trunk in a forest. In our checklist area, it was known from a single, very old *Tilia* tree near a cemetery in France (Lorr.). New to Luxembourg.

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