

# Report on two lichenological field meetings in Luxembourg in 2011 and 2012

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**Abstract.** During two lichenological field meetings in Luxembourg, a total of 379 species of lichens and lichenicolous fungi were recorded in 14 localities. *Caloplaca conversa* var. *fallax* and *Zwackhiomyces peltigeriae* are new for the checklist of Belgium, Luxembourg and northern France. Seven further species are reported as new to Luxembourg: *Acarospora nitrophila*, *Buellia ocellata*, *Caloplaca cerinelloides*, *Collema polycarpon*, *Lecanora barkmaniana*, *Scoliciosporum sarothammi* and *Tremella caloplacae*. *Teloggalla olivieri* was rediscovered in the country after more than 160 years and *Caloplaca ferruginea* after more than 120 years.

## 1. Introduction

In September 2011 and 2012, two lichenological field meetings were organized in Luxembourg.

Fourteen localities in the phytogeographical Ardenne and Lorraine districts were visited. In most localities, a rather complete inventory of lichens and lichenicolous fungi was carried out. Herbarium specimens of rare or critical species are kept in BR or in the private herbaria of the authors (abbreviated as 'h'). The purpose of this paper is to provide a list per locality of the recorded taxa (Table 1) and to comment on the most interesting species.

The participants of the 2011 field meeting were: André Aptroot, Paul Diederich, Jean-Pierre Duvivier, Damien Ertz, Christian Fontaine, Ghislaine Loiselet, Bernadette Mora, Henk Siebel, Laurens Sparrius, Leo Spier, Henk Timmerman, Dries Van den Broeck, Klaas Van Dort, Maaike Vervoort and Micheline Wegh.

The participants of the 2012 field meeting were: Paul Diederich, Jean-Pierre Duvivier, Damien Ertz, Bernadette Mora, Dries Van den Broeck and Micheline Wegh.

## 2. Locality list

Grid data refer to the so-called IFBL system, commonly used in the area of study.

1. Luxembourg, phytogeographical Ardenne district (Ard.), Hoscheid, Molberlee, future nature reserve 'Hoscheid-Molberlay' (K8.24, 49°56'50–56" N, 6°03'47"–04'18" E, alt. 300–400 m), 2.9.2011.
2. Luxembourg, Ard., Hoscheid, valley of Schlënner W of Molberlee (K8.24, 49°56'49–57" N, 6°03'46–56" E, alt. 310 m), 2.9.2011.
3. Luxembourg, Ard., Hoscheid, road to Uewerschlënner (K8.24, 49°57'05"–24" N, 6°03'48"–04'20"; 320–430 m), 2.9.2011.
4. Luxembourg, Ard., Lellingen, valley of Lellgerbaach, Bârel, future nature reserve 'Lellingen-Fréng/Bârel' (K8.13, 49°59'15–29" N, 6°01'12–49" E, alt. 310–400 m), 3.9.2011.
5. Luxembourg, Ard., Bourscheid, walls and rocks around castle (K8.34, 49°54'18–22" N, 6°04'41–50" E, alt. 340–350 m), 4.9.2011.
6. Luxembourg, Ard., Bourscheid, Ènnescht Fuusslee, siliceous outcrops (K8.34, 49°54'38" N, 6°05'04" E, alt. 270 m), 4.9.2011.
7. Luxembourg, Ard., Bourscheid, Iewesch Fuusslee, siliceous outcrops (K8.34, 49°54'25"N, 6°04'54" E, alt. 310 m), 4.9.2011.
8. Luxembourg, Ard., Bourscheid, wood with shadowed siliceous rocks close to Iewesch Fuusslee (K8.34, 49°54'25"N, 6°04'52" E, alt. 310 m), 4.9.2011.
9. Luxembourg, Ard., Enscherange, camping site 'Val d'Or' (K8.13, 50°00'01"N, 5°59'27"E, alt. 315 m), 4.9.2011.
10. Luxembourg, phytogeographical Lorraine district (Lorr.), S of Pétange, Prënzeberg, nature reserve 'Prënzeberg', disused iron quarry (M8.31, 49°32'42–48" N, 5°52'10–36" E, alt. 340–375 m), 7.9.2012.

11. Luxembourg, Lorr., S of Pétange, Fuussbësch and Giele Botter, nature reserve 'Prënzebiërg', disused iron quarry (M8.31, 49°32'20–46" N, 5°52'16–57" E, alt. 370–390 m), 7.9.2012.
12. Luxembourg, Lorr., SW of Belvaux, along road E and SE of Metzbergiërg, disused iron quarry (M8.41, 49°30'06–22" N, 5°54'25–50" E, alt. 390–400 m), 8.9.2012.
13. Luxembourg, Lorr., S of Obercorn, Kiemerchen, future nature reserve 'Differdange-Kiemerchen/Scheiergrond', disused iron quarry

(M8.51, 49°29'49"–30'03" N, 5°53'10"–54'00" E, alt. 375–390 m), 8.9.2012.

14. Luxembourg, Lorr., SE of Esch-sur-Alzette, future nature reserve 'Esch-Lallengerbiërg', disused iron quarry (M8.53, 49°29'09–31" N, 5°59'56"–6°00'30" E, alt. 340–370 m), 9.9.2012.

### 3. Species list

See Table 1.

Table 1. List of lichens and lichenicolous fungi recorded during the field meetings in Luxembourg in 2011 and 2012. For each species only the most common substrate is mentioned. The nomenclature follows Diederich et al. (2013).

\*identification has been confirmed by TLC

as: asphalt roof shingles, co: concrete, me: metal, mo: mortar, mos: mosses, ro: calcareous rock, si: siliceous rock, sl: slate, sm: saxicolous mosses, so: soil, wo: wood

Ac: *Acer*, Al: *Alnus*, Be: *Betula*, Ca: *Carpinus*, Co: *Corylus*, Cor: *Cornus*, Cr: *Crataegus*, Cy: *Cytisus*, Fa: *Fagus*, Fr: *Fraxinus*, La: *Larix*, Pi: *Picea abies*, Po: *Populus*, Pr: *Prunus spinosa*, Qu, *Quercus*, Ro: *Rosa*, Sal: *Salix*, Sam: *Sambucus*, Sar: *Sarothamnus*, So: *Sorbus*, T: *Tilia*

Acc: *Aspicilia caesiocinerea*, Bab: *Bacidia bagliettoana*, Cas: *Calicium salicinum*, Cl: *Cladonia*, Clp: *Cladonia pocillum*, Clr: *C. rangiferina*, Cls: *C. subulata*, Dis: *Diploschistes scrupeus*, Evp: *Evernia prunastri*, Grs: *Graphis scripta*, Hyp: *Hypogymnia physodes*, Hys: *Hypocomyce scalaris*, Lea: *Lecanora carpinea*, Lec: *L. chlorotera*, Led: *L. dispersa*, Les: *L. saligna*, Pas: *Parmelia sulcata*, Pe: *Peltigera*, Pee: *Peltigera extenuata*, Pep: *P. praetextata*, Per: *P. rufescens*, Ph: *Physcia*, Pha: *Physcia adscendens*, Phc: *P. caesia*, Pho: *Phaeophyscia orbicularis*, Phs: *Physcia stellaris*, Pht: *P. tenella*, Pot: *Porpidia tuberculosa*, Psl: *Psilolechia lucida*, Ven: *Verrucaria nigrescens*, Vif: *Violella fucata*, Xac: *Xanthoparmelia conspersa*, Xap: *Xanthoria parietina*

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Acarospora fuscata</i>					si		si		sl					
<i>Acarospora glaucocarpa</i> var. <i>conspersa</i>											ro		ro	ro
<i>Acarospora moenium</i>											ro		ro	ro
<i>Acarospora nitrophila</i>					si									
<i>Acremonium antarcticum</i>				Myf										
<i>Agonimia tristicula</i>				si	si									
<i>Agonimia vouauxii</i>													mos	so
<i>Alyxoria varia</i>				Qu										
<i>Anisomeridium polypori</i>		Po		Ac			Qu							
<i>Arthonia atra</i>				Ca										
<i>Arthonia didyma</i>		Ca		Qu						Fa				
<i>Arthonia lecanorina</i>														Led
<i>Arthonia molendoi</i>											Xap	Xap	Xap	Xap
<i>Arthonia punctiformis</i>														Be
<i>Arthonia radiata</i>		Qu		Qu			Fa		Cr	Cr	Co	Sal	Fr	
<i>Arthonia spadicea</i>		Qu		Ac			Qu							
<i>Arthonia vinosa</i>		Qu		Qu										
<i>Arthopyrenia analepta</i>		Qu		Be	So								Co	
<i>Arthrorhaphis citrinella</i>		si		si										
<i>Aspicilia caesiocinerea</i>		si		si	si	si	si							
<i>Aspicilia contorta</i> subsp. <i>contorta</i>									co		ro		ro	ro
<i>Athelia arachnoidea</i>				Pht								Xap	Ac	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Bacidia arceutina</i>		Ac												
<i>Bacidia bagliettoana</i>														so
<i>Bacidia biatorina</i>				Qu										
<i>Bacidia rubella</i>				Qu										
<i>Bacidia viridifarinoso</i>		si												
<i>Bacidina caligans</i>					mo									so
<i>Bacidina chlorotricula</i>	Qu													
<i>Bacidina sulphurella</i>	Qu	Ac												
<i>Baeomyces rufus</i>		si		si				si						
<i>Biatora globulosa</i>				Qu										
<i>Bilimbia sabuletorum</i>											ro		ro	ro
<i>Botryolepraria lesdainii</i>														ro
<i>Bryoria subcana</i>	Qu													
<i>Buellia aethalea</i>					si	si								
<i>Buellia badia</i>		si				so								
<i>Buellia griseovirens</i>	Ca			Ca	Qu					Sal	Sal			Sal
<i>Buellia ocellata</i>				si										
<i>Buellia punctata</i>	Qu				Ac				Ac					
<i>Buellia schaeereri</i>				Qu										
<i>Calicium adpersum</i>				Qu	Qu									
<i>Calicium glaucellum</i>	Qu			wo		wo								
<i>Calicium salicinum</i>		wo		wo										
<i>Calicium viride</i>	Qu			Qu										
<i>Caloplaca arcis</i>					mo									
<i>Caloplaca cerina</i>				Sam										
<i>Caloplaca cerinella</i>											Po		Po	
<i>Caloplaca cerinelloides</i>												Po	Sal	Fr
<i>Caloplaca chlorina</i>					si									
<i>Caloplaca chrysodeta</i>														ro
<i>Caloplaca citrina</i>					mo				Fr					
<i>Caloplaca conversa</i> var. <i>fallax</i>					si									
<i>Caloplaca crenulatella</i>					si									
<i>Caloplaca decipiens</i>											ro			
<i>Caloplaca ferruginea</i>											Sal			
<i>Caloplaca flavescens</i>					si						ro			
<i>Caloplaca flavocitrina</i>					si			co	ro	ro			ro	ro
<i>Caloplaca flavovirescens</i>														ro
<i>Caloplaca holocarpa</i>					si									
<i>Caloplaca oasis</i>					si			co						ro
<i>Caloplaca pyracea</i>												Po	Po	
<i>Caloplaca ruderum</i>					mo									ro
<i>Caloplaca saxicola</i> s.lat.					si									
<i>Caloplaca subpallida</i>					si	si								
<i>Caloplaca teicholyta</i>					mo									
<i>Candelariella aurella</i>		si		si	mo				co		ro		ro	ro
<i>Candelariella reflexa</i>	Qu			Qu		Qu				Sal	Cr	Sal		Qu
<i>Candelariella vitellina</i>	si	si		si	si	si			as		Sal		Sal	
<i>Candelariella xanthostigma</i>				Qu	Qu						Po	Sal	Sal	
<i>Capronia peltigerae</i>														Pel
<i>Catillaria chalybeia</i>				si	si			sl					ro	ro
<i>Catillaria nigroclavata</i>											Sal	Qu		Ac

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Cetraria aculeata</i>	so													
<i>Chaenotheca brunneola</i>				wo										
<i>Chaenotheca chlorella</i>				wo										
<i>Chaenotheca chrysocephala</i>	Qu			Qu										
<i>Chaenotheca ferruginea</i>	Qu			wo	Pi	Qu		Qu		La				
<i>Chaenotheca furfuracea</i>	Qu			si				si						
<i>Chaenotheca trichialis</i>	wo			wo										
<i>Chaenothecopsis vainioana</i>				Cas										
<i>Chrysothrix candelaris</i>	Qu			Qu										
<i>Chrysothrix chlorina</i>	si						si							
<i>Cladonia arbuscula</i>	so			so		si								
<i>Cladonia borealis</i>	so					si								
<i>Cladonia caespiticia</i>	Qu			so	si	Qu								
<i>Cladonia cervicornis</i>	so			so		si								
<i>Cladonia chlorophaea</i>	Qu													
<i>Cladonia ciliata</i>	so			so										
<i>Cladonia coccifera</i>	so					si	si							
<i>Cladonia coniocraea</i>	Qu			wo		wo								
<i>Cladonia crispata</i>	so													
<i>Cladonia cyathomorpha</i>				so	si		si							
<i>Cladonia digitata</i>	Qu			wo										
<i>Cladonia fimbriata</i>	Qu			mos	si	Qu			so		so			
<i>Cladonia floerkeana</i>	so			wo		si								
<i>Cladonia foliacea</i>				so										
<i>Cladonia furcata</i> subsp. <i>furcata</i>	so			so		si	si				so			
<i>Cladonia gracilis</i>	so			so		si	si							
<i>Cladonia grayi</i>	so			so			so							
<i>Cladonia humilis</i>		so			si		so							
<i>Cladonia macilenta</i> s.str.	so			wo		si								
<i>Cladonia ochrochlora</i>	wo													
<i>Cladonia phyllophora</i>	so													
<i>Cladonia polydactyla</i>	Qu			si										
<i>Cladonia portentosa</i>	so			so		so								
<i>Cladonia pyxidata</i> subsp. <i>pocillum</i>				so		so					so		ro	
<i>Cladonia pyxidata</i> subsp. <i>pyxidata</i>					si						so		ro	ro
<i>Cladonia ramulosa</i>	so			so		si	si							
<i>Cladonia rangiferina</i>						si								
<i>Cladonia rangiformis</i>		so		so		so					so			ro
<i>Cladonia rei</i>											so			
<i>Cladonia scabriuscula</i>		so												
<i>Cladonia squamosa</i>	Qu													
<i>Cladonia strepsilis</i>	so			so										
<i>Cladonia subulata</i>	so			so		si	si						so	so
<i>Cladonia uncialis</i> subsp. <i>biuncialis</i>	so					si								
<i>Cladonia verticillata</i>	so					si								
<i>Clauzadea monticola</i>														ro
<i>Clypeococcum hypocenomyces</i>										Hys				
<i>Coenogonium pineti</i>	Qu			Qu	Pi					La				
<i>Collema auriforme</i>					si									
<i>Collema crispum</i>										so	so	so		ro
<i>Collema flaccidum</i>					si									

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Collema fuscovirens</i>					si									
<i>Collema polycarpon</i>					si									
<i>Collema tenax</i>			so								so		so	ro
<i>Corticifraga fuckelii</i>												Pel		Pel
<i>Cyrtidula quercus</i>	Qu													
<i>Dendrographa latebrarum</i>								si						
<i>Dermatocarpon luridum</i>		si												
<i>Dibaeis baeomyces</i>	si			so			si							
<i>Diploschistes muscorum</i>				Cl							Cl		Cl	Clp
<i>Diploschistes scruposus</i>	si			si	si	si								
<i>Diplotomma alboatrum</i>					si									
<i>Endococcus brachysporus</i>	Pot													
<i>Enterographa hutchinsiae</i>								si						
<i>Enterographa zonata</i>	si	si			si			si						
<i>Evernia prunastri</i>	Qu			Ca	Ac	Qu			So	La	Qu		Pr	me
<i>Flavoparmelia caperata</i>	Qu			Ca					Ac		Cr		Po	Ac
<i>Flavoparmelia soledians</i>									So					
<i>Fuscidea lightfootii</i>				So		Qu			Fr					
<i>Graphis scripta</i> s. lat.	Co			Ca				Ca				Co		
<i>Graphium aphthosae</i>														Per
<i>Haematomma ochroleucum</i>	si													
<i>Hainesia xanthoriae</i>											Xap	Xap		Xap
<i>Halecania viridescens</i>				Qu							Sal	Qu		
<i>Hawksworthiana peltigericola</i>											Pe			
<i>Hypocenomyce scalaris</i>	Qu			wo		wo				La				
<i>Hypogymnia physodes</i>	Qu			Qu	So	Qu			So		Pi		Sal	me
<i>Hypogymnia tubulosa</i>	Qu				So				Fr	La	Cr		Po	me
<i>Hypotrachyna afrorevoluta</i>				Ca						La			Sal	Ac
<i>Hypotrachyna revoluta</i>				Qu									Sal	
<i>Illosporiosis christiansenii</i>				Pht	Pha						Sal	Ph	Xap	Sal
<i>Jamesiella anastomosans</i>	wo			wo										
<i>Lecania cyrtella</i>											Sal	Sal		Ac
<i>Lecania erysibe</i>					mo									
<i>Lecania inundata</i>											ro		ro	
<i>Lecania naegelii</i>		Fr		Sam						Cor	Sal	Qu		Ac
<i>Lecanora albella</i>				Qu										
<i>Lecanora albescens</i>					si		co		co		ro		ro	ro
<i>Lecanora antiqua</i>					si									
<i>Lecanora barkmaniana</i>											Sal			
<i>Lecanora campestris</i>					si				co					ro
<i>Lecanora carpinea</i>	Ca			Cr	Qu				Fr	Be	Cr	Sal	Pr	Fr
<i>Lecanora chlarotera</i>	Qu				Ac				So	Cor	Qu	Sal	Pr	Qu
<i>Lecanora conizaeoides</i>										Be			Be	
<i>Lecanora crenulata</i>														ro
<i>Lecanora dispersa</i>					si						Po	Sal		
<i>Lecanora expallens</i>	Qu			wo	Ti	Qu			So				Be	Ac
<i>Lecanora hagenii</i>					si									
<i>Lecanora horiza</i>											Po			
<i>Lecanora intumescens</i>		Ca												Ac
<i>Lecanora muralis</i>					si				sl	ro	ro		ro	ro
<i>Lecanora orosthea</i>					si		si							

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Lecanora persimilis</i>														Sal
<i>Lecanora polytropa</i>	si			si		si								
<i>Lecanora pulicaris</i>	Qu			Qu	Qu	Qu								
<i>Lecanora saligna</i>				wo										
<i>Lecanora semipallida</i>					si								ro	ro
<i>Lecanora subcarnea</i>	si						si							
<i>Lecanora subcarpineae</i>				Qu										
<i>Lecanora symmicta</i>	Cy			Al	Qu	Qu			Fr		Sal	Be		Ac
<i>Lecidea fuscoatra</i>	si			si		si								
<i>Lecidella carpathica</i>				si							ro			
<i>Lecidella elaeochroma</i>	Cy			Ca	Ac				Fr	Be	Cr	Sal	Pr	Fr
<i>Lecidella flavosorediata</i>										Sal			Sal	Ac
<i>Lecidella scabra</i>					si									
<i>Lecidella stigmataea</i>		si			si		co		co				ro	ro
<i>Lempholemma polyanthes</i>														ro
<i>Lepraria borealis</i>				si*										
<i>Lepraria incana</i>	Qu			Ca	si	Qu		Pi		La				
<i>Lepraria lobificans</i>	so			Ca	si			Qu	Fr	Ac		Sal		
<i>Lepraria membranacea</i>					si	Qu	si	si						
<i>Lepraria rigidula</i>	Qu			Ca		Qu				La	Sal	Sal		Ac
<i>Leprocaulon microscopicum</i>		si		si				si						
<i>Leptogium gelatinosum</i>					sm									so
<i>Leptogium magnussonii</i>					si									
<i>Leptogium pulvinatum</i>											so		ro	ro
<i>Leptogium subtile</i>					sm									ro
<i>Leptogium teretiusculum</i>					Per									
<i>Leptogium turgidum</i>					mo									ro
<i>Leptorhaphis epidermidis</i>											Be			
<i>Lichenochora cf. weillei</i>												Pha		
<i>Lichenochora obscuroides</i>														Pho
<i>Lichenocodium aeruginosum</i>														Clp
<i>Lichenocodium erodens</i>	Pas			Hyp										Evp
<i>Lichenocodium lecanorae</i>														Lea
<i>Lichenocodium lichenicola</i>	Pha													
<i>Lichenocodium usneae</i>														Clp
<i>Lichenocodium xanthoriae</i>														Xap
<i>Lichenodiplis lecanorae</i>				Les										
<i>Lichenostigma cosmopolites</i>	Xac			Xac										
<i>Lichenostigma chlaroterae</i>				Al										
<i>Lichenostigma elongatum</i>	Acc													
<i>Lichenothelia rugosa</i>	Dis			Dis		Dis								
<i>Marchandiobasidium aurantiacum</i>				Pht							Pht	Pht	Pht	Pht
<i>Melanelixia glabratula</i>	Qu			Ca		Qu				La		Sal	Be	Ac
<i>Melanelixia subaurifera</i>	Qu			Qu	Qu	Qu			So		Ba	Sal	Pr	me
<i>Melanohalea elegantula</i>				Cr										
<i>Melanohalea exasperata</i>											Sal			
<i>Melanohalea exasperatula</i>					Ac				Fr	La	Cr	Sal	Sal	me
<i>Micarea denigrata</i>				wo										
<i>Micarea leprosula</i>	so					si								
<i>Micarea lignaria var. lignaria</i>	si				si									
<i>Micarea lutulata</i>				si										

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Micarea micrococca</i>	Qu													
<i>Micarea prasina</i>				wo								Fr		
<i>Micarea sylvicola</i>		si						si						
<i>Microcalicium arenarium</i>	Psl													
<i>Violella fucata</i>	Ca			Ca		Qu								
<i>Nectriopsis lecanodes</i>											Pe			
<i>Neolamyia peltigerae</i>											Pee			
<i>Ochrolechia microstictoides</i>	Qu			Qu										
<i>Ochrolechia turneri</i>	Qu													
<i>Opegrapha gyrocarpa</i>					si									
<i>Opegrapha niveoatra</i>	Qu	Ca												
<i>Opegrapha rufescens</i>		Ca		Ca	Qu					Fr		Fr		Ac
<i>Opegrapha vermicellifera</i>								Qu						
<i>Parmelia ernstiae</i>				Qu										
<i>Parmelia saxatilis</i>	Qu			Ca	Ac	Qu				La	Sal			Ac
<i>Parmelia sulcata</i>	Qu			Ca		Qu			So	La	Cr	Sal	Pr	me
<i>Parmelina pastillifera</i>											Sal			
<i>Parmeliopsis ambigua</i>	Ca			Ca	Ti	Qu								
<i>Parmotrema perlatum</i>	Qu			Qu							Sal		Sal	Ac
<i>Peltigera canina</i>		si		so	si						so		so	ro
<i>Peltigera didactyla</i>					si						Sal	so		so
<i>Peltigera extenuata</i>										so	so			
<i>Peltigera membranacea</i>				so						so	so		so	
<i>Peltigera neckeri</i>			so		si						Sal			
<i>Peltigera ponojensis</i>			so		si					so	so	so	so	
<i>Peltigera praetextata</i>		si		mos	si				Sal	so			so	
<i>Peltigera rufescens</i>			so		so				so	Sal	so	so	so	ro
<i>Pertusaria albescens</i>	Qu			Qu	Ac									
<i>Pertusaria amara</i>	Qu			Ca		Qu								
<i>Pertusaria coccodes</i>	Qu			Qu	Qu									
<i>Pertusaria corallina</i>		si												
<i>Pertusaria flavida</i>				Qu	Qu									
<i>Pertusaria hymenea</i>					Qu									
<i>Pertusaria leioplaca</i>				Ca				Ca						
<i>Pertusaria pertusa</i>				Qu										
<i>Pezizella epithallina</i>														Per
<i>Phacopsis fusca</i>				Xac										
<i>Phaeophyscia nigricans</i>					si									
<i>Phaeophyscia orbicularis</i>				Sam	si				Fr		Sal	Sal		Ac
<i>Phlyctis argena</i>	Co			Ca	Ac	Qu			So	Ac	Cr	Sal	Sal	Fr
<i>Physcia tenella</i>	Qu			Qu	Ac	Qu			Fr	La	Cr	Sal	Pr	me
<i>Physcia adscendens</i>	Qu	Sal		Cr	si				Fr	Cr	Cr	Sal	Pr	Fr
<i>Physcia aipolia</i>	Qu			Cr						Cr	Cr	Sal	Pr	Cr
<i>Physcia caesia</i>						Qu			co		ro			
<i>Physcia dubia</i> var. <i>teretiusscula</i>					si									
<i>Physcia stellaris</i>											Sal		Sal	me
<i>Physconia distorta</i>										Sal			Sal	Ac
<i>Physconia enteroxantha</i>				Qu										Ac
<i>Physconia grisea</i>				Sam										Ac
<i>Placidium squamulosum</i>														so
<i>Placopyrenium fuscillum</i>											ro			Ven

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Placynthiella icmalea</i>	so			wo		si				La	wo			wo
<i>Placynthiella oligotropha</i>						si								
<i>Placynthium nigrum</i>										ro	ro		ro	ro
<i>Platismatia glauca</i>	Qu			Ca	Ac	Qu			Fr	Sal				Ac
<i>Pleurosticta acetabulum</i>									Fr		Sal			Ac
<i>Polycoccum pulvinatum</i>											Phc			
<i>Polysporina simplex</i>	si					si			sl					
<i>Porina aenea</i>	Ca			Ca				Qu		Ac			Fr	Ac
<i>Porina chlorotica</i>	si			si	si		si	si						
<i>Porina leptalea</i>	Ca			Ca										
<i>Porocyphus coccodes</i>														ro
<i>Porpidia crustulata</i>	si			si										
<i>Porpidia rugosa</i>				si										
<i>Porpidia soledizodes</i>				si	si									
<i>Porpidia tuberculosa</i>	si			si		si								
<i>Pronectria robergei</i>					Pep								Pel	Pel
<i>Protoblastenia rupestris</i>					si						ro		ro	
<i>Pseudevernia furfuracea</i>	Qu			Pr		Qu								Sal
<i>Psilolechia lucida</i>	si			si	si			si						
<i>Punctelia borrieri</i>											Sal		Sal	
<i>Punctelia jeckeri</i>	Qu			Ca		Qu			Fr	Cr				Ac
<i>Punctelia subrudecta</i>				Qu	Ti				So	Cr	Co			Ac
<i>Pycnothelia papillaria</i>	so			so										
<i>Pyrenochaeta xanthoriae</i>												Xap	Xap	
<i>Pyrrhospora quernea</i>				Ca	Qu									
<i>Racodium rupestre</i>		si						si						
<i>Ramalina farinacea</i>				Qu	Ac	Qu			Fr	La			Sal	Fr
<i>Ramalina fastigiata</i>											Sal			Fr
<i>Ramalina fraxinea</i>											Sal		Sal	Ac
<i>Reichlingia leopoldii</i>		si		si				si						
<i>Rhizocarpon geographicum</i>	si				si	si			as					
<i>Rhizocarpon lecanorinum</i>	si			si		si								
<i>Rhizocarpon reductum</i>	si			si	si	si			as					
<i>Rhizocarpon viridiatrum</i>				si										
<i>Rinodina aspersa</i>	si													
<i>Rinodina bischoffii</i>														ro
<i>Rinodina efflorescens</i>	Qu			Qu	Qu									
<i>Rinodina oleae</i>					si									
<i>Ropalospora viridis</i>	Ca			Ca						Be				
<i>Roselliniella cladoniae</i>							Clr				Clp		Clp	Clp
<i>Sarcogyne regularis</i>					co				co	ro				ro
<i>Sarcosagium campestre</i> s.lat.														ro
<i>Scoliciosporum sarothamni</i>				Sar										
<i>Scoliciosporum umbrinum</i>				si									Be	
<i>Sphaerellothecium cladoniae</i>													Clp	Clp
<i>Sphaerellothecium propinquellum</i>														Led
<i>Steinia geophana</i>														Per
<i>Stenocybe pullatula</i>				Al										
<i>Stigmatidium microspilum</i>	Grs													
<i>Stigmatidium xanthoparmeliarum</i>				Xac										
<i>Szygospora physciacearum</i>				Pha	Pht					Pht	Pht	Pht	Phs	Pht



	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<i>Taeniolella phaeophysciae</i>														Pho
<i>Telogalla olivieri</i>												Xap	Xap	Xap
<i>Tephromela atra</i>					si									
<i>Thelocarpon intermediellum</i>	wo													
<i>Toninia sedifolia</i>														so
<i>Trapelia coarctata</i>	si			si				si						
<i>Trapelia corticola</i>	Qu													
<i>Trapelia glebulosa</i>	si			si		si	si							
<i>Trapelia obtegens</i>	si													
<i>Trapelia placodioides</i>	si			si										
<i>Trapeliopsis flexuosa</i>	wo			wo										
<i>Trapeliopsis granulosa</i>	Qu			wo		si					wo			
<i>Trapeliopsis pseudogranulosa</i>		si												
<i>Tremella caloplacae</i>											Xap	Xap	Xap	Xap
<i>Tremella cladoniae</i>													Cls	
<i>Tremella hypogymniae</i>	Hyp													
<i>Tuckermannopsis chlorophylla</i>	Qu													
<i>Unguiculariopsis thallophila</i>													Lec	Lec
<i>Usnea filipendula</i>	Qu													
<i>Usnea florida</i>	Qu													Ac
<i>Usnea fulvoreagens</i>	Qu													
<i>Usnea hirta</i>	Qu*			Qu										
<i>Usnea subfloridana</i>	Qu								Fr					
<i>Varicellaria hemisphaerica</i>				Qu	Qu									
<i>Varicellaria lactea</i>					si	si								
<i>Verrucaria aquatilis</i>		si												
<i>Verrucaria bryoctona</i>													Per	so
<i>Verrucaria dolosa</i>		si												
<i>Verrucaria elaeina</i>					si									
<i>Verrucaria macrostoma</i>											ro			
<i>Verrucaria muralis</i>					si					ro	ro			ro
<i>Verrucaria nigrescens</i>					si		co		co		ro			ro
<i>Verrucaria ochrostoma</i>					co									
<i>Verrucaria praetermissa</i>		si												
<i>Verrucaria viridula</i>											ro		ro	
<i>Vezeadaea retigera</i>														Per
<i>Violella fucata</i>	Ca			Ca		Ca								
<i>Xanthoparmelia conspersa</i>	si			si	si	si								
<i>Xanthoparmelia loxodes</i>	si					si	si							
<i>Xanthoparmelia mougeotii</i>	si				si									
<i>Xanthoparmelia pulla</i>	si						si							
<i>Xanthoparmelia stenophylla</i>	si													
<i>Xanthoria candelaria</i>				wo										
<i>Xanthoria elegans</i>					si						ro			
<i>Xanthoria fallax</i>					si									
<i>Xanthoria parietina</i>	Cy			Cr	si	Qu			Fr	Cr	Cr	Sal	Pr	me
<i>Xanthoria polycarpa</i>	Cy			wo	Qu	Qu				Cr	Cr	Sal	Pr	Ro
<i>Xanthoricola physciae</i>											Xap	Xap	Xap	Xap
<i>Zwackhia viridis</i>								Ti						
<i>Zwackhiomyces peltigerae</i>														Per
<i>Zwackhiomyces socialis</i>														Bac

#### 4. Comments on interesting species

Several interesting records were already published by Diederich et al. (2012) and will not be repeated here. This mainly concerns *Caloplaca arcis* (Poelt & Vězda) Arup (loc. 5), *Graphium aphthosae* Alstrup & D. Hawksw. (loc. 14), *Lichenostigma chlaroterae* (F. Berger & Brackel) Ertz & Diederich (loc. 4) and *Stigmidium xanthoparmeliarum* Hafellner (loc. 4).

##### *Acarospora nitrophila* H. Magn.

Loc. 5, on siliceous rock, Ertz 17309 (BR), Diederich 17208 (h) & Van den Broeck 5496 (BR) (det. C. Roux).

In the area of the checklist of Belgium, Luxembourg and northern France, *Acarospora nitrophila* is a very rare species, previously known from two localities in northern Belgium and one in northern France (Diederich et al. 2013). New to Luxembourg.

##### *Buellia ocellata* (Flot.) Körb.

Loc. 4, on siliceous rock, Ertz 17283 (BR) & Diederich 17247 (h).

*Buellia ocellata* is widespread, but rare in the checklist area (Diederich et al. 2013), possibly overlooked owing to a confusion with *B. aethalea*, from which it differs by a more yellow-green colour of the thallus, reacting C + orange. New to Luxembourg.

##### *Caloplaca cerinelloides* (Erichsen) Poelt

Loc. 12, on *Populus tremula*, Van den Broeck 5541 (BR); loc. 13, on *Salix caprea*, Diederich 17476 (h); loc. 14, on *Fraxinus*, Diederich 17402 (h).

A very rare species, previously known from one Belgian locality in the Ardenne district. In northern France, the species is known from two localities, one in the Maritime and one in the Lorraine district. It is new to Luxembourg.

##### *Caloplaca conversa* (Kremp.) Jatta var. *fallax* (Bagl.) Wunder

Loc. 5, on siliceous rock, Ertz 17307 (BR), Diederich 17204 (h) & Van den Broeck 5302 (BR) (det. C. Roux).

*Caloplaca conversa* is widespread in central and southern Europe, often at a higher altitude. The Luxembourg specimen belongs to var. *fallax*, differing by larger asci and ascospores, a taxon not distinguished by some authors. This variety was known only from northern Italy (Wunder 1974) and has also been recorded in a locality in southern France (Roux, pers. comm.). The species is new to our checklist area.

##### *Caloplaca ferruginea* (Huds.) Th. Fr.

Loc. 11, on *Salix caprea*, Diederich 17390 (h) & Van den Broeck 5520 (BR).

In the 19<sup>th</sup> century, this species was widespread but rare in the area of the checklist, where it occurred on *Fagus*, *Fraxinus* and *Sorbus* in forests and on roadside trees



Fig. 1. *Caloplaca conversa* var. *fallax*, on siliceous rocks near the castle of Bourscheid. Photo 5.5 mm wide.

(Diederich et al. 2013). During the 20<sup>th</sup> century it has been collected in two localities in the Belgian Meuse district in 1962, and it was considered as extinct in the entire checklist area afterwards. In Luxembourg, the last known record was from 1890, and therefore we were particularly surprised to find a healthy thallus during the excursion.

***Collema polycarpon* Hoffm.**

Loc. 5, on mortar of walls made of siliceous stones, *Diederich* 17200 (h).

As this species usually grows on calcareous natural outcrops, the discovery on siliceous walls, mainly on mortar, was a surprise. New to Luxembourg and to the Ardenne district.

***Lecanora barkmaniana* Aptroot & Van Herk**

Loc. 11, on *Salix caprea*, *Diederich* 17382 (h).

N. Stapper kindly informed us that he observed this species, together with *L. compallens* van Herk & Aptroot and *L. expallens* Ach. as an epiphyte near Tëntesmillen (Heinerscheid, Ard. distr.) in 2002. New to Luxembourg.

***Scoliciosporum sarothamni* (Vain.) Vězda**

Loc. 4, on *Sarothamnus*, *Diederich* 17242 (h).

In the area of the checklist *Scoliciosporum sarothamni* is known only from a few localities in the Ardenne district in Belgium and is here reported as new to Luxembourg.

***Teloggalla olivieri* (Vouaux) Nik. Hoffm. & Hafellner**

Loc. 12, on *Xanthoria parietina*, *Diederich* 17453 (h); loc. 13, on *X. parietina*, *Ertz* 17613 (BR), *Diederich* 17474 (h) & *Van den Broeck* 5526 (BR); loc. 14, on *X. parietina*, *Diederich* 17437 (h).

This lichenicolous species was found in abundance on *Xanthoria parietina*, mainly on *Salix caprea*, in three localities. It was only once collected in Luxembourg before 1850 by F.-A. Tinant (Sérusiaux et al. 1999) and recently reported from Belgium for the first time (*Diederich* et al. 2009). Recent field trips in Belgium suggest that the species is nowadays abundant and widespread in the Meuse district, but seems to be absent in the northern part of the country. It might be in extension since its host lichen *X. parietina* became extremely abundant everywhere because of a general eutrophication.

***Thelocarpon intermediellum* Nyl.**

Loc. 1, on dead wood, *Diederich* 17228 (h).

A very rare species in the area of the checklist, previously just known from Luxembourg (one locality in the Ard. and two in the Lorr. district).

***Tremella caloplacae* (Zahlbr.) Diederich**

Loc. 11, on *Xanthoria parietina*, *Diederich* 17385 (h); loc. 12, on *X. parietina*, *Ertz* 17607 (BR) & *Diederich* 17455 (h); loc. 13, on *X. parietina*, *Ertz* 17612 (BR), *Diederich* 17473 (h) & *Van den Broeck* 5523 (BR), loc. 14, on *X. parietina*, field observation.

Fig. 2. *Tremella caloplacae*, a lichenicolous basidiomycete parasitizing the apothecia of *Xanthoria parietina*, near Belvaux. Photo 7.4 mm wide.



This lichenicolous basidiomycete was formerly known mainly on *Caloplaca* species, but appears to become more and more abundant on *Xanthoria parietina*, mainly parasitizing the apothecia. It is new to Luxembourg.

***Zwackhiomyces peltigerae*** Miądl. & Alstrup

Loc. 14, on *Peltigera rufescens*, Diederich 17425 (h).

This lichenicolous ascomycete, apparently confined to *Peltigera* species, was described from Poland (Miadlkowska & Alstrup 1995) and has subsequently been reported from Austria (Hafellner 1999) and Germany (Brackel 2009). New to our checklist area.

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