

Lichen Checklist for North Carolina, USA

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Abstract -- A checklist of lichens from a thorough literature review of both printed and online resources covering North Carolina, USA is presented. This list contains over 600 taxa from the state.

While preparing a report for an herbaria review I had conducted for lichens of the Piedmont of North Carolina, I found it necessary to compile a checklist for the state to verify reviewed taxa as already reported or as new. The only existing checklist for North Carolina is from a website from the University of Hamburg, Germany (www.biologie.uni-hamburg.de/checklists/), which I found to be inadequate for my review. Therefore, I conducted a more thorough review of the literature, including both printed and online sources, from early papers (e.g. Oosting and Anderson 1937) to the most recent online publications (e.g. USGS 2005). The resulting checklist includes 605 lichen taxa and is the most complete listing of lichens of North Carolina to date.

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Lichen checklist for North Carolina from literature review. Nomenclature follows Esslinger (1997) with synonyms as found in the literature. References are as first appeared in the literature.

Taxon	Reference
<i>Acarospora fuscata</i> (Schrader) Arnold	Brodo et al. 2001
<i>Acarospora glaucocarpa</i> (Ach.) Körber	Brodo et al. 2001
<i>Ahtiana aurescens</i> (Tuck. ex Riddle) Goward & Thell (Syn.: <i>Cetraria aurescens</i> , <i>Tuckermannopsis aurescens</i>)	Dey 1978
<i>Alectoria fallacina</i> Mot.	Dey 1978
<i>Allocetraria oakesiana</i> (Tuck.) Randlane & Thell (Syn.: <i>Cetraria oaksiana</i> , <i>Tuckermannopsis oaksaina</i>)	Perry & Moore 1969
<i>Amandinea langloisii</i> Imshaug ex Marbach	Lendemer & Yahr 2004
<i>Amandinea milliaria</i> (Tuck.) P. May & Sheard	Lendemer & Yahr 2004
<i>Amandinea polyspora</i> (Willey) E. Lay & P. May	Lendemer & Yahr 2004
<i>Amandinea punctata</i> (Hoffm.) Coppins & Scheid. (Syn.: <i>Buellia punctata</i>)	Brodo et al. 2001
<i>Anaptychia palmulata</i> (Michaux) Vainio	Perry & Moore 1969
<i>Anaptychia setifera</i> Räsänen	NatureServe 2005
<i>Anisomeridium biforme</i> (Borrer) R. C. Harris	Lendemer & Yahr 2004
<i>Anthracothecium nanum</i> (Zahlbr.) R. C. Harris	Lendemer & Yahr 2004
<i>Anzia americana</i> Yoshim. & Sharp	NatureServe 2005
<i>Anzia colpodes</i> (Ach.) Stizenb.	Perry & Moore 1969
<i>Anzia ornata</i> (Zahlbr.) Asah.	NatureServe 2005
<i>Arctoparmelia incurva</i> (Pers.) Hale (Syn.: <i>Parmelia incurva</i>)	Dey 1978
<i>Arthonia albovirescens</i> Nyl.	Lendemer & Yahr 2004
<i>Arthonia caesia</i> (Flotow) Körber	Brodo et al. 2001
<i>Arthonia cinnabarina</i> (DC.) Wallr.	Brodo et al. 2001
<i>Arthonia rubella</i> (Fée) Nyl.	Lendemer & Yahr 2004
<i>Arthopyrenia cinchonae</i> (Ach.) Müll. Arg.	Lendemer & Yahr 2004
<i>Arthopyrenia degelii</i> R. C. Harris	Harris 1995
<i>Arthothelium interveniens</i> (Nyl.) Zahlbr.	Lendemer & Yahr 2004
<i>Arthothelium taediosum</i> (Nyl.) Müll. Arg.	Lendemer & Yahr 2004
<i>Aspicilia cinerea</i> (L.) Körber (Syn.: <i>Lecanora cinerea</i>)	Brodo et al. 2001

Taxon	Reference
<i>Bacidia heterochroa</i> (Müll. Arg.) Zahlbr.	Lendemer & Yahr 2004
<i>Bacidia polychroa</i> (Th. Fr.) Körber	Lendemer & Yahr 2004
<i>Bacidia rubella</i> (Hoffm.) A. Massal.	Brodo et al. 2001
<i>Bacidia schweinitzii</i> (Fr. ex E. Michener) A. Schneider	Brodo et al. 2001
<i>Bacidina egenula</i> (Nyl.) Vezda	Lendemer & Yahr 2004
<i>Bactrospora mesospora</i> R.C. Harris	Lendemer & Yahr 2004
<i>Baculifera curtisii</i> (Tuck.) Marbach (Syn.: <i>Buellia curtisii</i>)	Lendemer & Yahr 2004
<i>Baculifera imshaugiana</i> (R. C. Harris) Marbach (Syn.: <i>Buellia imshaugiana</i>)	Lendemer & Yahr 2004
<i>Bathelium carolinianum</i> (Tuck.) R. C. Harris	Lendemer & Yahr 2004
<i>Baeomyces rufus</i> (Hudson) Rebent.	Dey 1978
<i>Biatora pontica</i> Printzen & Tønsberg	Printzen & Tønsberg 2003
<i>Biatora printzenii</i> Tønsberg	Tønsberg 2002
<i>Brigantiaea leucoxantha</i> (Sprengel) R. Sant. & Hafellner	Brodo et al. 2001
<i>Bryoria bicolor</i> (Ehrh.) Brodo & D. Hawksw. (Syn.: <i>Alectoria bicolor</i>)	Perry & More 1969
<i>Bryoria furcellata</i> (Fr.) Brodo & D. Hawksw. (Syn.: <i>Alectoria nidulifera</i>)	Perry & More 1969
<i>Bryoria nadvornikiana</i> (Gyelnik) Brodo & D. Hawksw. (Syn.: <i>Alectoria nadvornikiana</i>)	Perry & More 1969
<i>Bryoria tenuis</i> (E. Dahl) Brodo & D. Hawksw. Syn (Syn.: <i>Alectoria tenuis</i>)	Dey 1978
<i>Bryoria trichodes</i> subsp. <i>americana</i> (Mot.) Brodo & D. Hawksw. (Syn.: <i>Alectoria americana</i>)	Perry & More 1969
<i>Buellia curatellae</i> Malme	USGS 2005
<i>Buellia spuria</i> (Schaerer) Anzi	Brodo et al. 2001
<i>Buellia stillingiana</i> J. Steiner	Brodo et al. 2001
<i>Bulbothrix confoederata</i> (Culb.) Hale	Brodo et al. 2001
<i>Bulbothrix goebelii</i> (Zenker) Hale	McCune et al. 1997
<i>Bulbothrix isidiza</i> (Nyl.) Hale	Dey 1987
<i>Byssoloma leucoblepharum</i> (Nyl.) Vainio	Lendemer & Yahr 2004
<i>Byssoloma meadii</i> (Tuck.) S. S. Ekman	Brodo et al. 2001
<i>Byssoloma subdiscordans</i> (Nyl.) P. James	Lendemer & Yahr 2004
<i>Calicium abietinum</i> Pers.	Lendemer & Yahr 2004

Taxon	Reference
<i>Calicium hyperelloides</i> Nyl.	Lendemer & Yahr 2004
<i>Calicium trabinellum</i> (Ach.) Ach	Lendemer & Yahr 2004
<i>Caloplaca cerina</i> (Ehrh. ex Hedwig) Th. Fr.	Brodo et al. 2001
<i>Caloplaca chrysophthalma</i> Degel.	Lendemer & Yahr 2004
<i>Caloplaca cinnabarina</i> (Ach.) Zahlbr.	Wetmore & Kärnefelt 1999
<i>Caloplaca citrina</i> (Hoffm.) Th. Fr.	Brodo et al. 2001
<i>Caloplaca ferruginea</i> (Hudson) Th. Fr.	USGS 2005
<i>Caloplaca flavovirescens</i> (Wulfen) Dalla Torre & Sarnth.	Brodo et al. 2001
<i>Candelaria concolor</i> (Dickson) Stein	Perry & Moore 1969
<i>Candelaria fibrosa</i> (Fr.) Müll. Arg.	Perry & Moore 1969
<i>Candelariella efflorescens</i> R. C. Harris & W. R. Buck	Brodo et al. 2001
<i>Candelariella vitellina</i> (Hoffm.) Müll. Arg.	USGS 2005
<i>Canomaculina haitiensis</i> (Hale) Elix (Syn.: <i>Parmotrema haitiense</i>)	Lendemer & Yahr 2004
<i>Canomaculina neotropica</i> (Kurok.) Elix (Syn.: <i>Parmotrema neotropicum</i>)	Heiman 1996
<i>Canomaculina subsumpta</i> (Nyl.) Elix (Syn.: <i>Parmotrema subsumptum</i>)	McCune et al. 1997
<i>Canomaculina subtinctoria</i> (Zahlbr.) Elix (Syn.: <i>Parmotrema subtinctorium</i> , <i>Parmelia subcrinita</i>)	Perry & Moore 1969
<i>Canoparmelia amabilis</i> Heiman & Elix	Heiman & Elix 1999
<i>Canoparmelia amazonica</i> (Nyl.) Elix & Hale	Lendemer & Yahr 2004
<i>Canoparmelia caroliniana</i> (Nyl.) Elix & Hale (Syn.: <i>Parmelia caroliniana</i>)	Perry & Moore 1969
<i>Canoparmelia crozalsiana</i> (B. de Lesd. ex Harm.) Elix & Hale	Heiman 1996
<i>Canoparmelia texana</i> (Tuck.) Elix & Hale	Brodo et al. 2001
<i>Cetradonia linearis</i> (Evans) J.-C. Wei & Ahti (Syn.: <i>Cladonia linearis</i> , <i>Gymnoderma lineare</i>)	Perry & Moore 1969
<i>Cetraria aculeata</i> (Schreber) Fr.	Mozingo 1954
<i>Cetraria arenaria</i> Kärnefelt	Heiman 1996
<i>Cetraria islandica</i> (L.) Ach. subsp. <i>islandica</i>	Perry & Moore 1969
<i>Cetrelia cetrarioides</i> (Duby) Culb. & C. Culb.	Dey 1978
<i>Cetrelia chicitae</i> (Culb.) Culb. & C. Culb.	Perry & Moore 1969
<i>Cetrelia olivetorum</i> (Nyl.) Culb. & C. Culb.	Perry & Moore 1969

Taxon	Reference
<i>Chaenotheca brunneola</i> (Ach.) Müll. Arg.	Brodo et al. 2001
<i>Chaenothecopsis debilis</i> (Turner & Borrer ex Sm.) Tibell (Saprophytic fungus related to lichens or lichenicolous fungi)	Lendemer & Yahr 2004
<i>Chrysothrix candelaris</i> (L.) J. R. Laundon (Syn.: <i>Lepraria flava</i>)	Brodo et al. 2001
<i>Chrysothrix flavovirens</i> Tønsberg s. lat.	Lendemer 2005
<i>Ciposia wheeleri</i> (R. C. Harris) Marbach (Syn.: <i>Buellia wheeleri</i>)	Lendemer & Yahr 2004
<i>Cladonia anitae</i> Culb. & C. Culb.	Culberson et al. 1982
<i>Cladonia apodocarpa</i> Robbins	Keever et al. 1951
<i>Cladonia arbuscula</i> (Wallr.) Flotow (Syn.: <i>Cladina arbuscula</i> , <i>Cladonia sylvatica</i>)	Oosting & Anderson 1937
<i>Cladonia beaumontii</i> (Tuck.) Vainio	Brodo et al. 2001
<i>Cladonia caespiticia</i> (Pers.) Flörke	Oosting & Anderson 1937
<i>Cladonia caroliniana</i> Tuck.	Oosting & Anderson 1939
<i>Cladonia cenotea</i> (Ach.) Schaerer	Perry & Moore 1969
<i>Cladonia cervicornis</i> (Ach.) Flotow subsp. <i>cervicornis</i>	Heiman 1996
<i>Cladonia cervicornis</i> subsp. <i>verticillata</i> (Hoffm.) Ahti (Syn.: <i>Cladonia verticillata</i>)	Perry & Moore 1969
<i>Cladonia chlorophaea</i> (Flörke ex Sommerf.) Sprengel	Perry & Moore 1969
<i>Cladonia ciliata</i> var. <i>tenuis</i> (Flörke) Ahti (Syn.: <i>Cladonia tenuis</i>)	Oosting & Anderson 1937
<i>Cladonia coccifera</i> (L.) Willd.	Oosting & Anderson 1937
<i>Cladonia coniocraea</i> (Flörke) Sprengel	Oosting & Anderson 1937
<i>Cladonia crispata</i> (Ach.) Flotow var. <i>crispata</i>	Brodo et al. 2001
<i>Cladonia cristatella</i> Tuck.	Keever et al. 1951
<i>Cladonia cryptochlorophaea</i> Asah.	Perry & Moore 1969
<i>Cladonia cylindrica</i> (A. Evans) A. Evans	Heiman 1996
<i>Cladonia didyma</i> (Fée) Vainio	Perry & Moore 1969
<i>Cladonia didyma</i> var. <i>vulcanica</i> (Zoll. & Moritzi) Vainio (Syn.: <i>Cladonia vulcanica</i>)	McCune et al. 1997
<i>Cladonia digitata</i> (L.) Hoffm.	Dey 1978

Taxon	Reference
<i>Cladonia dimorphoclada</i> Robbins	Brodo et al. 2001
<i>Cladonia evansii</i> Abbayes (Syn.: <i>Cladina evansii</i>)	Brodo et al. 2001
<i>Cladonia fimbriata</i> (L.) Fr.	Oosting & Anderson 1937
<i>Cladonia floerkeana</i> (Fr.) Flörke	Oosting & Anderson 1937
<i>Cladonia floridana</i> Vainio	Brodo et al. 2001
<i>Cladonia furcata</i> (Hudson) Schrader	Oosting & Anderson 1937
<i>Cladonia gracilis</i> (L.) Willd. subsp. <i>gracilis</i> (Syn.: <i>Cladonia gracilis</i>)	Perry & Moore 1969
<i>Cladonia grayi</i> G. Merr. ex Sandst.	Keever et al. 1951
<i>Cladonia humilis</i> (With.) J. R. Laundon	Heiman 1996
<i>Cladonia incrassata</i> Flörke	Oosting & Anderson 1937
<i>Cladonia leporina</i> Fr.	Oosting & Anderson 1939
<i>Cladonia macilenta</i> Hoffm.	Heiman 1996
<i>Cladonia macilenta</i> var. <i>bacillaris</i> (Genth) Schaerer (Syn.: <i>Cladonia bacillaris</i>)	Keever et al. 1951
<i>Cladonia mateocyatha</i> Robbins	Robinson 1959
<i>Cladonia merochlorophaea</i> Asah.	Dey 1978
<i>Cladonia mitis</i> Sandst. (Syn.: <i>Cladina mitis</i>)	Oosting & Anderson 1937
<i>Cladonia ochrochlora</i> Flörke	McCune et al. 1997
<i>Cladonia pachycladodes</i> Vainio	Brodo et al. 2001
<i>Cladonia parasitica</i> (Hoffm.) Hoffm. (Syn.: <i>Cladonia delicata</i>)	Robinson 1959
<i>Cladonia peziziformis</i> (With.) J. R. Laundon (Syn.: <i>Cladonia capitata</i>)	Robinson 1959
<i>Cladonia piedmontensis</i> G. Merr.	Keever et al. 1951
<i>Cladonia pleurota</i> (Flörke) Schaerer	Perry & Moore 1969
<i>Cladonia polycarpoides</i> Nyl.	Heiman 1996
<i>Cladonia psoromica</i> J. P. Dey	Dey 1973
<i>Cladonia pyxidata</i> (L.) Hoffm.	Oosting & Anderson 1937
<i>Cladonia ramulosa</i> (With.) J. R. Laundon (Syn.: <i>Cladonia pityrea</i>)	McCune et al. 1997
<i>Cladonia rangiferina</i> (L.) F. H. Wigg. (Syn.:	Oosting & Anderson

Taxon	Reference
<i>Cladina rangiferina</i>)	1937
<i>Cladonia rappii</i> A. Evans (Syn.: <i>Cladonia calycantha</i>)	Brodo et al. 2001
<i>Cladonia rei</i> Schaerer (Syn.: <i>Cladonia nemoxyna</i>)	Perry & More 1969
<i>Cladonia robbinsii</i> A. Evans	Brodo et al. 2001
<i>Cladonia santensis</i> Tuck.	Lendemer & Yahr 2004
<i>Cladonia sobolescens</i> Nyl. ex Vainio	SCAN 1997
<i>Cladonia squamosa</i> Hoffm.	Oosting & Anderson 1937
<i>Cladonia stellaris</i> (Opiz) Pouzar & Vzda (Syn.: <i>Cladonia alpestris</i>)	Oosting & Anderson 1937
<i>Cladonia strepsilis</i> (Ach.) Grognot	Oosting & Anderson 1937
<i>Cladonia stygia</i> (Fr.) Ruoss (Syn.: <i>Cladina stygia</i>)	Ahti & Hyvonen 1985
<i>Cladonia subcariosa</i> Nyl. (Syn.: <i>Cladonia clavulifera</i> , <i>C. polycarpia</i>)	Oosting & Anderson 1937
<i>Cladonia submitis</i> A. Evans (Syn.: <i>Cladina submitis</i>)	Dey 1978
<i>Cladonia subradiata</i> (Vainio) Sandst.	Brodo et al. 2001
<i>Cladonia subsetacea</i> Robbins ex A. Evans	Lendemer & Yahr 2004
<i>Cladonia subtenuis</i> (Abbayes) Mattick (Syn.: <i>Cladina subtenuis</i>)	Robinson 1959
<i>Cladonia turgida</i> Hoffm.	Heiman 1996
<i>Cladonia uncialis</i> (L.) F. H. Wigg.	Keever et al. 1951
<i>Coccocarpia erythroxyli</i> (Sprengel) Swinscow & Krog	Brodo et al. 2001
<i>Coccocarpia palmicola</i> (Sprengel) Arv. & D. J. Galloway (Syn.: <i>Coccocarpia cronia</i>)	Perry & Moore 1969
<i>Coenogonium luteum</i> (Dicks.) Kalb & Lücking (Syn.: <i>Dimerella lutea</i>)	Brodo et al. 2001
<i>Collema callibotrys</i> Tuck.	GBIF 2005
<i>Collema conglomeratum</i> Hoffm.	Perry & Moore 1969
<i>Collema flaccidum</i> (Ach.) Ach.	Dey 1978
<i>Collema furfuraceum</i> (Arnold) Du Rietz	Dey 1978
<i>Collema nigrescens</i> (Hudson) DC.	Dey 1978
<i>Collema pulcellum</i> Ach.	Brodo et al. 2001
<i>Collema subflaccidum</i> Degel. (Syn.: <i>Collema subfervum</i>)	Perry & Moore 1969

Taxon	Reference
<i>Conotrema urceolatum</i> (Ach.) Tuck.	Brodo et al. 2001
<i>Cryptothecia rubrocincta</i> (Ehreb. : Fr.) Thor (Syn.: <i>Herpothallon sanguineum</i>)	Brodo 1994
<i>Dendriscocaulon intricatum</i> (Nyl.) Henssen	Brodo et al. 2001
<i>Dermatocarpon luridum</i> (With.) J. R. Laundon (Syn.: <i>Dermatocarpon fluviatile</i>)	Heiman 1996
<i>Dermatocarpon miniatum</i> (L.) W. Mann	Perry & Moore 1969
<i>Dibaeis absoluta</i> (Tuck.) Kalb & Gierl (Syn.: <i>Baeomyces absolutus</i>)	Perry & Moore 1969
<i>Dibaeis baeomyces</i> (L. F.) Rambold & Hertel (Syn.: <i>Baeomyces fungoides</i> , <i>B. roseus</i>)	Perry & Moore 1969
<i>Dimelaena oreina</i> (Ach.) Norman	Brodo et al. 2001
<i>Diploschistes muscorum</i> (Scop.) R. Sant. subsp. <i>muscorum</i>	Brodo et al. 2001
<i>Diploschistes scruposus</i> (Schreber) Norman	Brodo et al. 2001
<i>Dirinaria aegialita</i> (Afz.) B. Moore (Syn.: <i>Dirinaria aspera</i>)	Brodo et al. 2001
<i>Dirinaria confusa</i> D. D. Awasthi	Brodo et al. 2001
<i>Dirinaria frostii</i> (Tuck.) Hale & Culb. (Syn.: <i>Physcia frostii</i>)	Perry & Moore 1969
<i>Dirinaria picta</i> (Sw.) Clem. & Shear	Lendemer & Yahr 2004
<i>Dyplolabia afzelii</i> (Ach.) A. Massal. (Syn.: <i>Graphis afzelii</i>)	Brodo et al. 2001
<i>Endocarpon pusillum</i> Hedwig	Brodo et al. 2001
<i>Enterographa lecanoroides</i> R. C. Harris (Syn.: <i>Enterographa anguinella</i>)	Lendemer & Yahr 2004
<i>Ephebe americana</i> Henssen	Dey 1978
<i>Ephebe lanata</i> (L.) Vainio	Brodo et al. 2001
<i>Ephebe solida</i> Bornet	NatureServe 2005
<i>Epigloea pleiospora</i> Döbbele	Buck & Harris 2002
<i>Everniastrum catawbiense</i> (Degel.) Hale ex Sipman (Syn.: <i>Parmelia catawbiensis</i>)	Dey 1978
<i>Fissurina columbina</i> (Tuck.) Staiger	Lendemer & Yahr 2004
<i>Fissurina subnitidula</i> (Nyl.) Staiger	Lendemer & Yahr 2004
<i>Flavoparmelia baltimorensis</i> (Gyelnik & Fóriiss) Hale	Dey 1978
<i>Flavoparmelia caperata</i> (L.) Hale (Syn.: <i>Parmelia caperata</i>)	Perry & Moore 1969
<i>Flavopunctelia flaventior</i> (Stirton) Hale (Syn.:	Dey 1978

Taxon	Reference
<i>Parmelia flaventior</i>)	
<i>Fuscidea recensa</i> (Stirton) Hertel, V. Wirth & Vezda	Brodo et al. 2001
<i>Fuscopannaria leucophaea</i> (Vahl) P. M. Jørg. (Syn.: <i>Pannaria leucophaea</i>)	McCune et al. 1997
<i>Fuscopannaria leucosticta</i> (Tuck.) P. M. Jørg. (Syn.: <i>Pannaria leucosticta</i>)	Perry & Moore 1969
<i>Gassicurtia elizae</i> (Tuck.) Marbach (Syn.: <i>Buellia elizae</i>)	Lendemer & Yahr 2004
<i>Glyphis cicatricosa</i> Ach.	Brodo et al. 2001
<i>Gomphillus americanus</i> Essl.	Buck 1998
<i>Graphina cypressi</i> Müll. Arg.	Lendemer & Yahr 2004
<i>Graphina peplophora</i> M. Wirth & Hale	Lendemer & Yahr 2004
<i>Graphis desquamescens</i> (Fée) Zahlbr.	Lendemer & Yahr 2004
<i>Graphis illiterata</i> R. C. Harris	Lendemer & Yahr 2004
<i>Graphis librata</i> C. Knight	Lendemer & Yahr 2004
<i>Graphis lineola</i> Ach.	Lendemer & Yahr 2004
<i>Graphis lucifica</i> R. C. Harris	Lendemer & Yahr 2004
<i>Graphis scripta</i> (L.) Ach.	SCAN 1996
<i>Graphis striatula</i> (Ach.) Sprengel	Lendemer & Yahr 2004
<i>Gyrostomum scyphuliferum</i> (Ach.) Nyl.	Lendemer & Yahr 2004
<i>Haematomma accolens</i> (Stirton) Hillm.	Brodo et al. 2001
<i>Haematomma flexuosum</i> Hillm.	Lendemer & Yahr 2004
<i>Haematomma persoonii</i> (Fée) A. Massal.	Brodo et al. 2001
<i>Hafellia disciformis</i> (Fr.) Marbach & H. Mayrhofer	USGS 2005
<i>Heppia adglutinata</i> (Kremp.) A. Massal.	Lendemer & Yahr 2004
<i>Hertelidea pseudobotryosa</i> R.C. Harris, Ladd & Printzen	Printzen & Kantvilas 2004
<i>Heterodermia albicans</i> (Pers.) Swinscow & Krog	SCAN 1996
<i>Heterodermia appalachensis</i> (Kurok.) Culb.	Culberson 1966
<i>Heterodermia caserettiana</i> (A. Massal.) Trevisan	Perry & Moore 1969
<i>Heterodermia crocea</i> R. C. Harris	Brodo et al. 2001
<i>Heterodermia echinata</i> (Taylor) Culb.	Culberson 1966
<i>Heterodermia galactophylla</i> (Tuck.) Culb.	Culberson 1966
<i>Heterodermia granulifera</i> (Ach.) Culb.	Culberson 1966
<i>Heterodermia hypoleuca</i> (Ach.) Trevisan	Perry & Moore 1969

Taxon	Reference
<i>Heterodermia leucomela</i> (L.) Poelt	Perry & Moore 1969
<i>Heterodermia microphylla</i> (Kurok.) Skorepa	McCune et al. 1997
<i>Heterodermia obscurata</i> (Nyl.) Trevisan	Perry & Moore 1969
<i>Heterodermia propagulifera</i> (Vainio) J. P. Dey	Dey 1978
<i>Heterodermia pseudospeciosa</i> (Kurok.) Culb.	Culberson 1966
<i>Heterodermia speciosa</i> (Wulfen) Trevisan (Syn.: <i>Anaptychia speciosa</i> , <i>Heterodermia tremulans</i>)	Culberson 1966
<i>Heterodermia squamulosa</i> (Degel.) Culb.	Perry & Moore 1969
<i>Hydrothyria venosa</i> J. L. Russell	Heiman 1996
<i>Hyperphyscia adglutinata</i> (Flörke) H. Mayrh. & Poelt	Brodo et al. 2001
<i>Hyperphyscia syncolla</i> (Tuck. ex Nyl.) Kalb	DePriest 2001
<i>Hypocnomyce anthracophila</i> (Nyl.) P. James & Gotth. Schneider	Brodo et al. 2001
<i>Hypocnomyce scalaris</i> (Ach.) M. Choisy	Brodo et al. 2001
<i>Hypogymnia enteromorpha</i> (Ach.) Nyl.	Perry & Moore 1969
<i>Hypogymnia krogiae</i> Ohlsson	Dey 1978
<i>Hypogymnia physodes</i> (L.) Nyl.	Perry & Moore 1969
<i>Hypogymnia tubulosa</i> (Schaerer) Hav.	Dey 1978
<i>Hypogymnia vittata</i> (Ach.) Parrique	Dey 1978
<i>Hypotrachyna croceopustulata</i> (Kurok.) Hale (Syn.: <i>Parmelia croceopustulata</i>)	Perry & Moore 1969
<i>Hypotrachyna densirhizinata</i> (Kurok.) Hale (Syn.: <i>Parmelia densirhizinata</i>)	Dey 1978
<i>Hypotrachyna dentella</i> (Hale & Kurok.) Hale (Syn.: <i>Parmelia dentella</i>)	Perry & Moore 1969
<i>Hypotrachyna gondylophora</i> (Hale) Hale (Syn.: <i>Parmelia gondylophora</i>)	Dey 1978
<i>Hypotrachyna imbricatula</i> (Zahlbr.) Hale (Syn.: <i>Parmelia imbricatula</i>)	Perry & Moore 1969
<i>Hypotrachyna laevigata</i> (Sm.) Hale (Syn.: <i>Parmelia laevigata</i>)	Dey 1978
<i>Hypotrachyna livida</i> (Taylor) Hale (Syn.: <i>Parmelia livida</i>)	Perry & Moore 1969
<i>Hypotrachyna oostingii</i> (J. P. Dey) Hale (Syn.: <i>Parmelia oostingii</i>)	Dey 1978
<i>Hypotrachyna osseoalba</i> (Vainio) Park & Hale (Syn.: <i>Hypotrachyna formosana</i>)	Heiman 1996
<i>Hypotrachyna producta</i> Hale (Syn.: <i>Parmelia</i>	Dey 1978

Taxon	Reference
producta)	
Hypotrachyna prolongata (Kurok.) Hale (Syn.: Parmelia rachista)	Dey 1978
Hypotrachyna pseudosinuosa (Asah.) Hale	McCune et al. 1997
Hypotrachyna pustulifera (Hale) Skorepa	McCune et al. 1997
Hypotrachyna revoluta (Flörke) Hale (Syn.: Parmelia revoluta)	Perry & Moore 1969
Hypotrachyna rockii (Zahlbr.) Hale (Syn.: Parmelia rockii)	Perry & Moore 1969
Hypotrachyna showmanii Hale	McCune et al. 1997
Hypotrachyna sinuosa (Sm.) Hale (Syn.: Parmelia sinuosa)	Dey 1978
Hypotrachyna thysanota (Kurok.) Hale (Syn.: Parmelia thysanota)	Dey 1978
Hypotrachyna virginica (Hale) Hale (Syn.: Parmelia virginica)	Perry & Moore 1969
Imschaugia aleurites (Ach.) S. F. Meyer (Syn.: Parmeliopsis aleurites)	Perry & Moore 1969
Imschaugia placorodia (Ach.) S. F. Meyer (Syn.: Parmeliopsis placorida)	Perry & Moore 1969
Ionapsis lacustris (With.) Lutzoni (Syn.: Lecanora lacustris)	Brodo et al. 2001
Lasallia papulosa (Ach.) Llano (Syn.: Umbilicaria pusulata var. papulosa)	Oosting & Anderson 1937
Lasallia pensylvanica (Hoffm.) Llano (Syn.: Umbilicaria pustulata)	Dey 1978
Lasallia pustulata (L.) Mérat	Keever et al. 1951
Lecanora allophana Nyl.	Brodo et al. 2001
Lecanora caesiorubella Ach. subsp. caesiorubella	Brodo et al. 2001
Lecanora caesiorubella subsp. glaucmodes (Nyl.) Imshaug & Brodo	Lendemer & Yahr 2004
Lecanora caesiorubella subsp. prolifera (Fink) R. C. Harris	DePriest 2001
Lecanora cenisia Ach.	Brodo et al. 2001
Lecanora cinereofusca H. Magn. var. cinereofusca	Brodo et al. 2001
Lecanora cinereofusca var. appalachensis Brodo	Brodo et al. 2001
Lecanora cupressi Tuck.	Brodo et al. 2001
Lecanora hybocarpa (Tuck.) Brodo	Brodo et al. 2001
Lecanora louisianae B. de Lesd.	Lendemer & Yahr 2004

Taxon	Reference
Lecanora minutella Nyl.	LaGreca & Lumbsch 2001
Lecanora oreinoides (Körber) Hertel & Rambold	SCAN 1997
Lecanora polytropa (Hoffm.) Rabenh.	Brodo et al. 2001
Lecanora strobilina (Sprengel) Kieffer	Brodo et al. 2001
Lecanora symmicta (Ach.) Ach.	Brodo et al. 2001
Lecanora thysanophora Harris	Brodo et al. 2001
Lecanora varia (Hoffm.) Ach.	SCAN 1997
Lecidea tessellata Flörke	Brodo et al. 2001
Leiorreuma sericeum (Eschw.) Staiger (Syn.: Pheographis sericea)	Lendemer & Yahr 2004
Lepraria lobificans Nyl. (Syn.: Lepraria finkii)	Brodo et al. 2001
Lepraria neglecta (Nyl.) Erichsen	Brodo et al. 2001
Lepraria membranacea (Dickson) Vainio (Syn.: Amphiloma lanuginosa, Leproloma membranaceum)	SCAN 1997
Leptogium austroamericanum (Malme) C. W. Dodge	Heiman 1996
Leptogium azureum (Sw.) Mont.	Perry & Moore 1969
Leptogium burnetiae C. W. Dodge	Dey 1978
Leptogium chloromelum (Sw. ex Ach.) Nyl.	Perry & Moore 1969
Leptogium corticola (Taylor) Tuck.	Perry & Moore 1969
Leptogium cyanescens (Rabenh.) Körber	Perry & Moore 1969
Leptogium dactylinum Tuck.	Lendemer & Yahr 2004
Leptogium hirsutum Sierk	Perry & Moore 1969
Leptogium laceroides (B. de Lesd.) P. M. Jørg.	Dey 1978
Leptogium lichinoides (L.) Zahlbr.	Heiman 1996
Leptogium milliganum Sierk	Perry & Moore 1969
Leptogium phyllocarpum (Pers.) Mont.	Brodo et al. 2001
Leptogium tenuissimum (Dickson) Körber	USGS 2005
Leptogium teretiusculum (Wallr.) Arnold	McCune et al. 1997
Lichenodiplis lecanorae (Vouaux) Dyko & D. Hawksw. (Lichenocolous fungus, on Pertusaria)	Lendemer & Yahr 2004
Lobaria pulmonaria (L.) Hoffm.	Perry & Moore 1969
Lobaria quercizans Michaux	Perry & Moore 1969
Lobaria ravenelii (Tuck.) Yoshim.	McCune et al. 1997

Taxon	Reference
<i>Lobaria scrobiculata</i> (Scop.) DC.	Perry & Moore 1969
<i>Loxospora pustulata</i> (Brodo & Culb.) R. C. Harris (Syn.: <i>Haematomma pustulatum</i>)	Brodo & Culberson 1986
<i>Loxospora ochrophaea</i> (Tuck.) R. C. Harris	Brodo et al. 2001
<i>Maronea constans</i> (Nyl.) Hepp	SCAN 1998
<i>Maronea polyphaea</i> H. Magn.	Lendemer & Yahr 2004
<i>Megalaria laureri</i> (Th. Fr.) Hafellner	Brodo et al. 2001
<i>Megalospora tuberculosa</i> (Fée) Sipman	USGS 2005
<i>Melanelia culbersonii</i> (Hale) Thell (Syn.: <i>Cetraria culbersonii</i>)	Heiman 1996
<i>Melanelia hepatizon</i> (Ach.) Thell (Syn.: <i>Cetraria hepatizon</i>)	Dey 1978
<i>Melanelia exasperata</i> (De Not.) Essl.	Heiman 1996
<i>Melanelia fuliginosa</i> (Fr. ex Duby) Essl.	Brodo et al. 2001
<i>Melanelia halei</i> (Ahti) Essl. (Syn.: <i>Parmelia halei</i>)	Perry & Moore 1969
<i>Melanelia stygia</i> (L.) Essl. (Syn.: <i>Parmelia stygia</i>)	Perry & Moore 1969
<i>Melanelia subaurifera</i> (Nyl.) Essl. (Syn.: <i>Parmelia subaurifera</i>)	Dey 1978
<i>Menegazzia terebrata</i> (Hoffm.) A. Massal.	Perry & Moore 1969
<i>Micarea neostipitata</i> Coppins & P. May	Coppins & May 2001
<i>Micarea peliocarpa</i> (Anzi) Coppins & R. Sant.	Brodo et al. 2001
<i>Micarea prasina</i> Fr.	Lendemer & Yahr 2004
<i>Mycocalicium subtile</i> (Pers.) Szatala (Saprophytic fungus related to lichens or lichenicolous fungi)	Lendemer & Yahr 2004
<i>Myelochroa aurulenta</i> (Tuck.) Elix & Hale (Syn.: <i>Parmelia aurulenta</i> , <i>Parmelina aurulenta</i>)	Perry & Moore 1969
<i>Myelochroa galbina</i> (Ach.) Elix & Hale (Syn.: <i>Parmelia galbina</i> , <i>Parmelina galbina</i>)	Perry & Moore 1969
<i>Myelochroa obsessa</i> (Ach.) Elix & Hale (Syn.: <i>Parmelina obsessa</i>)	Heiman 1996
<i>Myxobilimbia sabuletorum</i> (Schreber) Hafellner (Syn.: <i>Bacidia sabuletorum</i> , <i>Mycobilimbia sabuletorum</i>)	Brodo et al. 2001
<i>Myriotrema glaucescens</i> (Nyl.) Hale	Lendemer & Yahr 2004
<i>Myriotrema wightii</i> (Taylor) Hale (Syn.: <i>Thelotrema ravenelii</i>)	Lendemer & Yahr 2004
<i>Nadvornikia sorediata</i> R. C. Harris	Lendemer & Yahr 2004
<i>Nephroma helveticum</i> Ach. subsp. <i>helveticum</i>	Perry & Moore 1969

Taxon	Reference
<i>Nephroma parile</i> (Ach.) Ach.	Dey 1978
<i>Nephroma resupinatum</i> (L.) Ach.	Dey 1978
<i>Normadina pulchella</i> (Borrer) Nyl.	Dey 1978
<i>Ocellularia praestans</i> (Müll. Arg.) Hale	Lendemer & Yahr 2004
<i>Ochrolechia africana</i> Vainio	Brodo et al. 2001
<i>Ochrolechia pseudopallescens</i> Brodo	Brodo 1991
<i>Ochrolechia trochophora</i> (Vainio) Oshio var. <i>trochophora</i>	Brodo et al. 2001
<i>Ochrolechia yasudae</i> Vainio	Brodo et al. 2001
<i>Opegrapha varia</i> Pers.	Brodo et al. 2001
<i>Opegrapha viridis</i> (Pers. ex Ach.) Behlen & Desberger	Lendemer & Yahr 2004
<i>Pannaria conoplea</i> (Ach.) Bory (Syn.: <i>Pannaria pityrea</i>)	Dey 1978
<i>Pannaria lurida</i> (Mont.) Nyl. ssp. <i>lurida</i>	Brodo et al. 2001
<i>Pannaria rubiginosa</i> (Ach.) Bory	Perry & Moore 1969
<i>Pannaria tavarisii</i> P. M. Jørg.	Heiman 1996
<i>Parmelia omphalodes</i> (L.) Ach. subsp. <i>omphalodes</i>	Perry & Moore 1969
<i>Parmelia saxatilis</i> (L.) Ach.	Perry & Moore 1969
<i>Parmelia squarrosa</i> Hale	Dey 1978
<i>Parmelia sulcata</i> Taylor	Perry & Moore 1969
<i>Parmeliella appalachensis</i> P. M. Jørg.	Jørgensen 2000
<i>Parmeliella corallinoides</i> (Hoffm.) Zahlbr.	Perry & Moore 1969
<i>Parmeliella pannosa</i> (Sw.) Nyl.	Heiman 1996
<i>Parmeliella triptophylla</i> (Ach.) Müll. Arg.	McCune et al. 1997
<i>Parmelinopsis horrescens</i> (Taylor) Elix & Hale (Syn.: <i>Parmelia horrescens</i> , <i>Parmelina horrescens</i>)	Perry & Moore 1969
<i>Parmelinopsis minarum</i> (Vainio) Elix & Hale (Syn.: <i>Parmelia dissecta</i> , <i>Parmelina minarum</i>)	Perry & Moore 1969
<i>Parmelinopsis spumosa</i> (Asah.) Elix & Hale	McCune et al. 1997
<i>Parmeliopsis subambigua</i> Gyelnik	Brodo et al. 2001
<i>Parmotrema arnoldii</i> (Du Rietz) Hale	Dey 1978
<i>Parmotrema austrosinense</i> (Zahlbr.) Hale	Heiman 1996
<i>Parmotrema chinense</i> (Osbeck) Hale & Ahti (Syn.: <i>Parmelia perlata</i>)	Perry & Moore 1969
<i>Parmotrema crinitum</i> (Ach.) M. Choisy (Syn.: <i>Parmelia crinita</i>)	Perry & Moore 1969

Taxon	Reference
<i>Parmotrema dilatatum</i> (Vainio) Hale	McCune et al. 1997
<i>Parmotrema dominicanum</i> (Vainio) Hale	USGS 2005
<i>Parmotrema eurysacum</i> (Hue) Hale	McCune et al. 1997
<i>Parmotrema hypoleucinum</i> (Steiner) Hale	Lendemer & Yahr 2004
<i>Parmotrema hypotropum</i> (Nyl.) Hale (Syn.: <i>Parmelia hypotropa</i>)	Perry & Moore 1969
<i>Parmotrema madagascariaceum</i> (Hue) Hale	Lendemer & Yahr 2004
<i>Parmotrema margaritatum</i> (Hue) Hale (Syn.: <i>Parmelia margaritata</i>)	Perry & Moore 1969
<i>Parmotrema mellissii</i> (C. W. Dodge) Hale (Syn.: <i>Parmelia mellissii</i>)	Dey 1978
<i>Parmotrema perforatum</i> (Jacq.) A. Massal. (Syn.: <i>Parmelia perforata</i>)	Perry & Moore 1969
<i>Parmotrema praesorediosum</i> (Nyl.) Hale	McCune et al. 1997
<i>Parmotrema rampoddense</i> (Nyl.) Hale	Brodo et al. 2001
<i>Parmotrema rigidum</i> (Lynge) Hale	McCune et al. 1997
<i>Parmotrema stuppeum</i> (Taylor) Hale (Syn.: <i>Parmelia stuppea</i>)	Perry & Moore 1969
<i>Parmotrema submarginale</i> (Michx.) DePriest & B. Hale (Syn.: <i>Parmotrema michauxiana</i>)	Perry & Moore 1969
<i>Parmotrema tinctorum</i> (Delise ex Nyl.) Hale	DePriest 2001
<i>Parmotrema ultralucens</i> (Krog) Hale	Heiman 1996
<i>Parmotrema xanthinum</i> (Müll. Arg.) Hale (Syn.: <i>Parmelia xanthina</i>)	Perry & Moore 1969
<i>Peccania kansana</i> (Tuck.) Forss.	Keever et al. 1951
<i>Peltigera canina</i> (L.) Willd.	Perry & Moore 1969
<i>Peltigera didactyla</i> (With.) J. R. Laundon	Brodo et al. 2001
<i>Peltigera elisabethae</i> Gyelnik (Syn.: <i>Peltigera</i> <i>horizontalis</i>)	Dey 1978
<i>Peltigera lepidophora</i> (Vainio) Bitter	Brodo et al. 2001
<i>Peltigera leucophlebia</i> (Nyl.) Gyelnik	Heiman 1996
<i>Peltigera malacea</i> (Ach.) Funck	Heiman 1996
<i>Peltigera neckeri</i> Hepp ex Müll. Arg.	Brodo et al. 2001
<i>Peltigera phyllidiosa</i> Goffinet & Miadlikowska	Goffinet & Miadlikowska 1999
<i>Peltigera polydactylon</i> (Necker) Hoffm.	Perry & Moore 1969
<i>Peltigera praetextata</i> (Flörke ex Sommerf.) Zopf	Brodo et al. 2001

Taxon	Reference
<i>Peltigera rufescens</i> (Weiss) Humb.	Oosting & Anderson 1937
<i>Peltula cylindrica</i> Wetmore	Brodo et al. 2001
<i>Peltula zahlbruckneri</i> (Hasse) Wetmore	Wetmore 1970
<i>Pertusaria amara</i> (Ach.) Nyl.	Brodo et al. 2001
<i>Pertusaria copiosa</i> Erichsen	Lendemer & Yahr 2004
<i>Pertusaria epixantha</i> R. C. Harris	Lendemer & Yahr 2004
<i>Pertusaria globularis</i> (Ach.) Tuck.	Perlmutter (in review)
<i>Pertusaria hypothamnolica</i> Dibben	Lendemer & Yahr 2004
<i>Pertusaria iners</i> R. C. Harris	Lendemer & Yahr 2004
<i>Pertusaria leioplaca</i> DC. (Syn.: <i>Pertusaria leucostoma</i>)	DePriest 2001
<i>Pertusaria macounii</i> (Lamb) Dibben	Brodo et al. 2001
<i>Pertusaria neoscotica</i> Lamb	Lendemer & Yahr 2004
<i>Pertusaria obruta</i> R. C. Harris	Lendemer & Yahr 2004
<i>Pertusaria ostiolata</i> Dibben	SCAN 1996
<i>Pertusaria paratuberculifera</i> Dibben	Brodo et al. 2001
<i>Pertusaria plittiana</i> Erichsen	Brodo et al. 2001
<i>Pertusaria propinqua</i> Müll. Arg.	GBIF 2005
<i>Pertusaria pustulata</i> (Ach.) Duby	DePriest 2001
<i>Pertusaria rubefacta</i> Erichsen	GBIF 2005
<i>Pertusaria subpertusa</i> Brodo	Brodo et al. 2001
<i>Pertusaria texana</i> Müll. Arg.	SCAN 1998
<i>Pertusaria trachythallina</i> Erichsen	Brodo et al. 2001
<i>Pertusaria velata</i> (Turner) Nyl.	Brodo et al. 2001
<i>Pertusaria xanthodes</i> Müll. Arg.	SCAN 1997
<i>Phaeographis dendritica</i> (Ach.) Müll. Arg.	Lendemer & Yahr 2004
<i>Phaeographis inusta</i> (Ach.) Müll. Arg.	Brodo et al. 2001
<i>Phaeographis lobata</i> (Eschw.) Müll. Arg.	Lendemer & Yahr 2004
<i>Phaeographis subtigrina</i> (Vainio) Zahlbr.	Lendemer & Yahr 2004
<i>Phaeophyscia adiastrata</i> (Essl.) Essl.	Hieman 1996
<i>Phaeophyscia cernohorskyi</i> (Nádv.) Essl.	Brodo et al. 2001
<i>Phaeophyscia ciliata</i> (Hoffm.) Moberg (Syn.: <i>Physcia ciliata</i>)	Dey 1978
<i>Phaeophyscia erythrocardia</i> (Tuck.) Essl.	Hieman 1996

Taxon	Reference
Phaeophyscia hispidula (Ach.) Essl. (Syn.: Phaeophyscia imbricata, Physcia setosa)	Perry & Moore 1969
Phaeophyscia orbicularis (Necker) Moberg (Syn.: Physcia orbicularis)	Perry & Moore 1969
Phaeophyscia pusilloides (Zahlbr.) Essl. (Syn.: Physcia pusilloides)	Heiman 1996
Phaeophyscia rubropulchra (Degel.) Essl.	Heiman 1996
Phaeophyscia squarrosa Kashiwadani (Moberg 1995) (Syn.: Physcia lacinulata)	Perry & Moore 1969
Phlyctis argena (Sprengel) Flotow	Brodo et al. 2001
Phlyctis ludoviciensis (Müll. Arg.) Lendemer	Lendemer 2005
Phyllospora confusa Swinscow & Krog	Lendemer & Yahr 2004
Phyllospora parvifolia (Pers.) Müll Arg. var. parvifolia	Lendemer & Yahr 2004
Physcia adscendens (Fr.) H. Olivier	Hieman 1996
Physcia aipolia (Ehrh. ex Humb.) Fürnr. var. aipolia	Perry & Moore 1969
Physcia americana G. Merr. (Syn.: Physcia tribacoides)	Perry & Moore 1969
Physcia atrostriata Moberg (Syn.: Physcia albicans)	Brodo et al. 2001
Physcia halei J. W. Thomson	Brodo et al. 2001
Physcia millegrana Degel.	Heiman 1996
Physcia neogaea R. C. Harris	McCune et al. 1997
Physcia phaea (Tuck.) J. W. Thomson	Dey 1978
Physcia pseudospeciosa J. W. Thomson	Heiman 1996
Physcia pumilior R. C. Harris	Brodo et al. 2001
Physcia solediosa (Vainio) Lyngé	Brodo et al. 2001
Physcia stellaris (L.) Nyl.	Perry & Moore 1969
Physcia subtilis Degel.	Perry & Moore 1969
Physcia tribacia (Ach.) Nyl.	Oosting & Anderson 1937
Physcia wainioi Räsänen	Perry & Moore 1969
Physciella chloantha (Ach.) Essl.	Brodo et al. 2001
Phyconia detersa (Nyl.) Poelt	Heiman 1996
Piccolia conspersa (Fée) Vainio	Lendemer & Yahr 2004
Placidium lachneum (Ach.) Breuss	USGS 2005
Placidium lacinulatum (Ach.) Breuss	Brodo et al. 2001

Taxon	Reference
<i>Placidium tuckermanii</i> (Ravenel ex Mont.) Breuss (Syn.: <i>Dermatocarpon arboreum</i> , <i>D. tuckermanii</i>)	Perry & Moore 1969
<i>Placynthiella icmalea</i> (Ach.) Coppins & P. James	Lendemer & Yahr 2004
<i>Placynthiella uliginosa</i> (Schrader) Coppins & P. James	Lendemer & Yahr 2004
<i>Placynthium nigrum</i> (Hudson) Gray	Brodo et al. 2001
<i>Platismatia glauca</i> (L.) Culb. & C. Culb.	Perry & Moore 1969
<i>Platismatia tuckermanii</i> (Oakes) Culb. & C. Culb.	Perry & Moore 1969
<i>Porina heterospora</i> (Fink) R. C. Harris	Brodo et al. 2001
<i>Porina scabrida</i> R. C. Harris	Lendemer & Yahr 2004
<i>Porpidia albocaerulescens</i> (Wulfen) Hertel & Knoph (Syn.: <i>Lecidea albocaerulescens</i>)	Brodo et al. 2001
<i>Porpidia cinereoatra</i> (Ach.) Hertel & Knoph	NatureServe 2005
<i>Porpidia crustulata</i> (Ach.) Hertel & Knoph	Brodo et al. 2001
<i>Porpidia diversa</i> (Lowe) Gowan	NatureServe 2005
<i>Porpidia herteliana</i> Gowan	NatureServe 2005
<i>Porpidia macrocarpa</i> (DC.) Hertel & A. J. Schwab	NatureServe 2005
<i>Porpidia tahawasiana</i> Gowan	NatureServe 2005
<i>Porpidia tuberculosa</i> (Sm.) Hertel & Knoph	NatureServe 2005
<i>Pseudevernia cladonia</i> (Tuck.) Hale & Culb.	Perry & Moore 1969
<i>Pseudevernia consocians</i> (Vainio) Hale & Culb.	Perry & Moore 1969
<i>Pseudocyphellaria aurata</i> (Ach.) Vainio	Perry & Moore 1969
<i>Pseudocyphellaria crocata</i> (L.) Vainio	Perry & Moore 1969
<i>Pseudoparmelia uleana</i> (Müll. Arg.) Elix & Nash	Lendemer & Yahr 2004
<i>Psorula rufonigra</i> (Tuck.) Gotth. Schneider	Brodo et al. 2001
<i>Punctelia appalachensis</i> (Culb.) Krog (Syn.: <i>Parmelia appalachensis</i>)	Perry & Moore 1969
<i>Punctelia bolliana</i> (Müll. Arg.) Krog	Hieman 1996
<i>Punctelia graminicola</i> (B. de Lesd.) Egan (Syn.: <i>Punctelia semansiana</i>)	McCune et al. 1997
<i>Punctelia missouriensis</i> G. Wilh. & Ladd	McCune et al. 1997
<i>Punctelia reddenda</i> (Stirton) Krog (Syn.: <i>Parmelia reddenda</i>)	Dey 1978
<i>Punctelia rudecta</i> (Ach.) Krog (Syn.: <i>Parmelia rudecta</i>)	Perry & Moore 1969
<i>Punctelia subrudecta</i> (Nyl.) Krog (Syn.: <i>Parmelia subrudecta</i>)	Perry & Moore 1969

Taxon	Reference
<i>Pycnothelia papillaria</i> Dufour (Syn.: <i>Cladonia papillaria</i>)	Robinson 1959
<i>Pyrenula anomala</i> (Ach.) Vainio	Lendemer & Yahr 2004
<i>Pyrenula aspistea</i> (Ach.) Ach.	Lendemer & Yahr 2004
<i>Pyrenula caryae</i> R. C. Harris	Harris 1995
<i>Pyrenula citrififormis</i> R. C. Harris	Lendemer & Yahr 2004
<i>Pyrenula concatervans</i> (Nyl.) R. C. Harris	Lendemer & Yahr 2004
<i>Pyrenula cruenta</i> (Mont.) Vainio	Brodo et al. 2001
<i>Pyrenula leucostoma</i> Ach.	Lendemer & Yahr 2004
<i>Pyrenula micheneri</i> R. C. Harris	NatureServe 2005
<i>Pyrenula microcarpa</i> Müll. Arg.	Lendemer & Yahr 2004
<i>Pyrenula psuedobufonia</i> (Rehm) R. C. Harris	Brodo et al. 2001
<i>Pyrenula ravenelii</i> (Tuck.) R. C. Harris	Lendemer & Yahr 2004
<i>Pyrenula santensis</i> (Nyl.) Müll. Arg.	Lendemer & Yahr 2004
<i>Pyrrhospora russula</i> (Ach.) Hafellner	Brodo et al. 2001
<i>Pyrrhospora varians</i> (Ach.) R. C. Harris	DePriest 2001
<i>Pyxine caesiopruinosa</i> (Nyl.) Imshaug	Heiman 1996
<i>Pyxine sorediata</i> (Ach.) Mont.	Perry & Moore 1969
<i>Pyxine subcinerea</i> Stirton	Lendemer & Yahr 2004
<i>Ramalina americana</i> Hale (Syn.: <i>Ramalina fastigiata</i>)	Perry & Moore 1969
<i>Ramalina complanata</i> (Sw.) Ach.	Lendemer & Yahr 2004
<i>Ramalina culbersoniorum</i> La Greca	DePriest 2001
<i>Ramalina intermedia</i> (Delise ex Nyl.) Nyl.	Perry & Moore 1969
<i>Ramalina montagnei</i> De Not.	USGS 2005
<i>Ramalina paludosa</i> B. Moore	Brodo et al. 2001
<i>Ramalina pollinaria</i> (Westr.) Ach.	Perry & Moore 1969
<i>Ramalina stenospora</i> Müll. Arg.	Lendemer & Yahr 2004
<i>Ramalina willeyi</i> R. Howe	Brodo et al. 2001
<i>Ramonia microspora</i> Vezda	Lendemer & Yahr 2004
<i>Rhizocarpon geographicum</i> (L.) DC.	Brodo et al. 2001
<i>Rhizocarpon hochstetteri</i> (Körber) Vainio	Brodo et al. 2001
<i>Rhizocarpon obscuratum</i> (Ach.) A. Massal.	Brodo et al. 2001
<i>Rimelia cetrata</i> (Ach.) Hale & Fletcher (Syn.: <i>Parmelia cetrata</i> , <i>Parmotrema cetratum</i>)	Perry & Moore 1969

Taxon	Reference
<i>Rimelia diffractaica</i> (Essl.) Hale & Fletcher	McCune et al. 1997
<i>Rimelia reticulata</i> (Taylor) Hale & Fletcher (Syn.: <i>Parmelia reticulata</i> , <i>Parmotrema reticulatum</i>)	Perry & Moore 1969
<i>Rimelia simulans</i> (Hale) Hale & Fletcher	McCune et al. 1997
<i>Rimelia subsidiosa</i> (Müll. Arg.) Hale & Fletcher (Syn.: <i>Parmelia subsidiosa</i> , <i>Parmotrema subsidiosum</i>)	Perry & Moore 1969
<i>Rinodina applanata</i> H. Magn. (Syn.: <i>Rinodina maculans</i>)	Lendemer & Yahr 2004
<i>Rinodina ascociscana</i> Tuck.	Brodo et al. 2001
<i>Sarcographa tricola</i> (Ach.) Müll. Arg.	Lendemer & Yahr 2004
<i>Schismatomma glaucescens</i> (Nyl. ex Willey) R. C. Harris	Lendemer & Yahr 2004
<i>Scoliosporum chlorococcum</i> (Stenh.) Vezda	Brodo et al. 2001
<i>Scoliosporum umbrinum</i> (Ach.) Arnold	USGS 2005
<i>Sphinctrina anglica</i> Nyl.	USGS 2005
<i>Sphinctrina tubiformis</i> A. Massal.	Lendemer & Yahr 2004
<i>Staurolemma carolinianum</i> Jørg.	Jørgensen 2004
<i>Staurothele diffractella</i> (Nyl.) Tuck.	Keever et al. 1951
<i>Steinia geophana</i> (Nyl.) Stein	Buck et al. 1999
<i>Stereocaulon dactylophyllum</i> Flörke	Perry & Moore 1969
<i>Stereocaulon dactylophyllum</i> var. <i>occidentale</i> (H. Magn.) Lamb	NatureServe 2005
<i>Stereocaulon paschale</i> (L.) Hoffm.	Heiman 1996
<i>Stereocaulon pileatum</i> Ach.	Perry & Moore 1969
<i>Stereocaulon saxatile</i> H. Magn.	Heiman 1996
<i>Stereocaulon tennesseense</i> H. Magn. ex Degel.	Dey 1978
<i>Sticta beauvoisii</i> Delise	Brodo et al. 2001
<i>Sticta carolinensis</i> McDonald	McDonald et al. 2003
<i>Sticta fragilanata</i> McDonald	McDonald et al. 2003
<i>Sticta fuliginosa</i> (Hoffm.) Ach.	Perry & Moore 1969
<i>Sticta limbata</i> (Sm.) Ach.	Dey 1978
<i>Teloschistes chrysophthalmus</i> (L.) Th. Fr.	Brodo et al. 2001
<i>Teloschistes flavicans</i> (Sw.) Norman	NatureServe 2005
<i>Tephromela atra</i> (Hudson) Hafellner	Brodo et al. 2001
<i>Thelotrema adjectum</i> Nyl.	Lendemer & Yahr 2004

Taxon	Reference
<i>Thelotrema defectum</i> Hale	Lendemer & Yahr 2004
<i>Thelotrema lathraeum</i> Tuck.	Lendemer & Yahr 2004
<i>Thelotrema monospermum</i> R. C. Harris	USGS 2005
<i>Thelotrema subtile</i> Tuck.	Lendemer & Yahr 2004
<i>Topelia aperiens</i> P. M. Jørg. & Vezda	Lendemer & Yahr 2004
<i>Trapelia involuta</i> (Taylor) Hertel	Brodo et al. 2001
<i>Trapeliopsis flexuosa</i> (Fr.) Coppins & P. James	Brodo et al. 2001
<i>Trapeliopsis granulosa</i> (Hoffm.) Lumbsch	Brodo et al. 2001
<i>Tremolecia atrata</i> (Ach.) Hertel	Brodo et al. 2001
<i>Trichothelium cestrense</i> (Michener) R. C. Harris	Lendemer & Yahr 2004
<i>Trichothelium raphidospermum</i> (Müll. Arg.) R. C. Harris	Lendemer & Yahr 2004
<i>Trypethelium tropicum</i> (Ach.) Müll. Arg.	Lendemer & Yahr 2004
<i>Trypethelium virens</i> Tuck. ex Michener	Brodo et al. 2001
<i>Tuckermanella fendleri</i> (Nyl.) Essl. (Syn.: <i>Cetraria fendleri</i> , <i>Tuckermannopsis fendleri</i>)	Perry & Moore 1969
<i>Tuckermannopsis americana</i> (Sprengel) Hale (Syn.: <i>Cetraria halei</i>)	Perry & Moore 1969
<i>Tuckermannopsis ciliaris</i> (Ach.) Gyelnik (Syn.: <i>Cetraria ciliaris</i>)	Perry & Moore 1969
<i>Tuckermannopsis orbata</i> (Nyl.) M. J. Lai (Syn.: <i>Cetraria orbata</i>)	Perry & Moore 1969
<i>Umbilicaria caroliniana</i> Tuck.	Perry & Moore 1969
<i>Umbilicaria mammulata</i> (Ach.) Tuck.	Perry & Moore 1969
<i>Umbilicaria muhlenbergii</i> (Ach.) Tuck. (Syn.: <i>Actinogyra muhlenbergii</i>)	Perry & Moore 1969
<i>Umbilicaria polyphylla</i> (L.) Baumg.	Heiman 1996
<i>Umbilicaria vellea</i> (L.) Hoffm.	Heiman 1996
<i>Usnea amblyoclada</i> (Müll. Arg.) Zahlbr.	Brodo et al. 2001
<i>Usnea angulata</i> Ach.	Perry & Moore 1969
<i>Usnea baileyi</i> (Stirton) Zahlbr.	Lendemer & Yahr 2004
<i>Usnea ceratina</i> Ach.	Dey 1978
<i>Usnea confusa</i> Asah.	Dey 1978
<i>Usnea cornuta</i> Körber	McCune et al. 1997
<i>Usnea dasaea</i> Stirton	McCune et al. 1997
<i>Usnea diplotypus</i> Vainio	Dey 1978

Taxon	Reference
<i>Usnea evansii</i> Mot.	Lendemer & Yahr 2004
<i>Usnea filipendula</i> Stirton	Brodo et al. 2001
<i>Usnea fragilescens</i> var. <i>mollis</i> (Vainio) Clerc (Syn.: <i>Usnea mollis</i>)	Dey 1978
<i>Usnea fulvorea</i> gens (Räsänen) Räsänen	Dey 1978
<i>Usnea hesperina</i> Mot.	Dey 1978
<i>Usnea merrillii</i> Mot.	Perry & Moore 1969
<i>Usnea mutabilis</i> Stirton	Hieman 1996
<i>Usnea occidentalis</i> Mot.	Perry & Moore 1969
<i>Usnea pachyclada</i> Mot.	Perry & Moore 1969
<i>Usnea pensylvanica</i> Mot.	Lendemer & Yahr 2004
<i>Usnea rubicunda</i> Stirton	Perry & Moore 1969
<i>Usnea strigosa</i> (Ach.) Eaton subsp. <i>strigosa</i>	Perry & Moore 1969
<i>Usnea strigosa</i> subsp. <i>rubiginea</i> (Michaux) I. Tav.	USGS 2005
<i>Usnea subfloridana</i> Stirton	Dey 1978
<i>Usnea subfusca</i> Stirton	Dey 1978
<i>Usnea subscabrosa</i> Nyl. ex Mot.	Perry & Moore 1969
<i>Usnea trichodea</i> Ach.	Perry & Moore 1969
<i>Vainionora americana</i> Kalb, Tonsberg & Elix	Kalb 2004
<i>Verrucaria calciseda</i> DC.	Lendemer & Yahr 2004
<i>Verrucaria nigrescens</i> Pers.	Oosting & Anderson 1939
<i>Veizdaea leprosa</i> (P. James) Veizda	Buck et al. 1999
<i>Vulpicida pinastri</i> (Scop.) J.-E. Mattsson & M. J. Lai (Syn.: <i>Tuckermannopsis pinastri</i>)	Hieman 1996
<i>Vulpicida viridis</i> (Schwein.) J.-E. Mattsson & M. J. Lai (Syn.: <i>Cetraria viridis</i> , <i>Tuckermannopsis</i> <i>viridis</i>)	Perry & Moore 1969
<i>Xanthomendoza fulva</i> (Hoffm.) Søchting, Kärnefelt & S. Kondr. (Syn.: <i>Xanthoria fulva</i>)	Brodo et al. 2001
<i>Xanthoparmelia conspersa</i> (Ehrh. ex Ach.) Hale (Syn.: <i>Parmelia conspersa</i>)	Oosting & Anderson 1937
<i>Xanthoparmelia cumberlandia</i> (Gyelnik) Hale	Dey 1978
<i>Xanthoparmelia monticola</i> (J. P. Dey) Hale (Syn.: <i>Parmelia monticola</i>)	Dey 1978
<i>Xanthoparmelia piedmontensis</i> (Hale) Hale	Hieman 1996
<i>Xanthoparmelia plittii</i> (Gyelnk) Hale (Syn.:	Perry & Moore 1969

Taxon	Reference
Parmelia plittii)	
Xanthoparmelia somloënsis (Gyelnik) Hale	Brodo et al. 2001
Xanthoparmelia subramegira (Gyelnik) Hale	Heiman 1996
Xanthoparmelia tasmanica (Hook. f. & Taylor) Hale (Syn.: Parmelia tasmanica)	Perry & Moore 1969
Xanthoria candelaria (L.) Th. Fr.	USGS 2005
Xanthoria elegans (Link) Th. Fr.	Brodo et al. 2001
Xanthoria polycarpa (Hoffm.) Rieber	Dey 1978
Xanthoria soredata (Vainio) Poelt	Heiman 1996
Xylographa parallela (Ach. : Fr.) Behlen & Desberger	Brodo et al. 2001
Total	605

References

- Ahti T. and S. Hyvonen. 1985. *Cladina stygia*, a common, overlooked species of reindeer lichen. *Annales Botanici Fennici* 22: 223-229.
- Brodo I.M. 1991. Studies on the lichen genus *Ochrolechia*. 2. Corticolous species of North America. *Canadian Journal of Botany* 69(4): 733-772.
- . 1994. "*Herpothallon sanguineum*" in Delaware: a reevaluation. *Evansia* 11(3): 87.
- and W.L. Culberson. 1986. *Heamatomma pustulatum*, sp. nov. (Ascomycotina, Heamatommataceae): a common, widespread, sterile lichen from eastern North America. *The Bryologist* 89: 203-205.
- , Sharnoff S.D. and Sharnoff S. 2001. *Lichens of North America*. Yale University Press, New Haven, Connecticut.
- Buck, W.R. 1998. Lichen flora of eastern North America: the genus *Gomphillus* (Gomphillaceae), pp. 71-76, In *Lichenographia Thomsoniana: North American Lichenology in Honor of John W. Thomson*, Mycotaxon Ltd., Ithaca, NY.

- and R.C. Harris. 2002. *Epigloea* (Epigloeaceae) new to North America. *Evansia* 19(3): 83-84.
- , R.C. Harris, A.J. Shaw, M.D. Piercy-Normore, A. Tabae, J. Antanovics, and E.E. Crone. 1999. Unusual lichens under electricity pylons on zinc-enriched soil. *The Bryologist* 102(1): 130-132.
- Coppins, B.J. and P.F. May. 2001. *Micarea neostipitata*, a new species with pale stipitate pycnidia from eastern North America. *Lichenologist* 33: 487-490.
- Culberson, W.L. 1966. Chemistry and taxonomy of the lichen genera *Heterodermia* and *Anaptychia* in the Carolinas. *The Bryologist* 69: 472-487.
- , C.F. Culberson and A. Johnson. 1982. A new endemic red-fruited *Cladonia* from the North Carolina coast. *Mycologia* 74:662-667.
- DePriest, P.T. 2001. Lichen inventory for proposed Big Cove land exchange. Great Smoky Mountains National Park, North Carolina. SI DSG Code 686026.
- Dey, J.P. 1973. *Cladonia psoromica*, a new lichen species from western North Carolina. *The Bryologist* 76: 418-421.
- . 1978. Fruticose and foliose lichens of the high-mountain areas of the southern Appalachians. *Bryologist* 81: 1-93.
- . 1987. The distribution of the lichen, *Bulbothrix isidiza*, in North America north of Mexico. *The Bryologist* 90(4): 417-418.
- Esslinger, T.L. 1997. A cumulative checklist for the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada. North Dakota State University:
<http://www.ndsu.nodak.edu/instruct/esslinge/chcklst/chcklst7.html>
(First Posted 1 December 1997, Most Recent Update 2 March 2004), Fargo, North Dakota.
- Goffinet, B. and J. Miadlikowska. 1999. *Peltigera phyllidiosa* (Peltigeraceae, Ascomycota), a new species from the southern

- Appalachians corroborated by ITS sequences. *Lichenologist* 31(3): 247-256.
- Harris, R.C. 1995. More Florida Lichens, including the 10¢ tour of the pyrenolichens. Published by the author, Bronx, N.Y., 192 pp.
- Hieman, K. 1996. Macrolichens of the Blue Ridge Parkway in North Carolina. *Evansia* 13(2): 47- 57.
- and J.A. Elix. 1999. A new species of *Canoparmelia* from North America (lichenized Ascomycotina, Parmeliaceae). *Mycotaxon* 70: 163-166.
- Jørgensen, P.M. 2000. Survey of the lichen family Pannariaceae on the American continent, north of Mexico. *The Bryologist* 103(4): 670-704.
- . 2004. A new North American species of the lichen genus *Staurolemma* (Collemataceae). *The Bryologist* 107(3): 392-394.
- Keever, C., H.J. Oosting and L.E. Anderson. 1951. Plant succession on exposed granite of Rocky Face Mountain, Alexander County, North Carolina. *Bull. Torrey Bot. Club* 78(5): 401-421.
- LaGreca, S. and H.T. Lumbsch. 2001. Three species of *Lecanora* new to North America, with notes on other poorly known lecanoroid lichens. *The Bryologist* 104 (2): 204–211.
- Lendemer, J.C. 2005. Lichens of Eastern North America Exsiccati. Fascicle IV, no.s 151-200. *Opuscula Philolichenum* 2: 37-51.
- and R. Yahr. 2004. A Checklist of the lichens collected during the Tuckerman Workshop #12, Outer Banks, North Carolina, USA.
- McCune B., J. Dey, J. Peck, K. Heiman, and S. Will-Wolf. 1997. Regional gradients in lichen communities of the southeast United States. *The Bryologist* 100 (2): 145-158.
- McDonald, T., J. Miadlikowska and F. Lutzoni. 2003. The lichen genus *Sticta* in the Great Smoky Mountains: a phylogenetic study of

- morphological, chemical and molecular data. *The Bryologist* 106(1): 61-79.
- Mozingo, H.N. 1954. Two notable additions to the lichen flora of the Great Smoky Mountains National Park. *The Bryologist* 57(1): 31-32.
- Oosting, H.J. and L.E. Anderson. 1937. The vegetation of a barefaced cliff in western North Carolina. *Ecology* 18(2): 280-292.
- . 1939. Plant succession on granite rock in eastern North Carolina. *Botanical Gazette* 100: 750-768.
- Perry, J.D. and B.J. Moore. 1969. Preliminary check list of foliose and fruticose lichens in Bucombe County, North Carolina. *Castanea* 34: 146-157.
- Printzen, C. and T. Tønsberg. 2003. Four new species and three new apothecial pigments of *Biatora*. In Jensen, M. (ed.), *Lichenological Contributions in Honor of G. B. Feige*. *Bibliotheca Lichenologica*, J. Cramer, Berlin, Stuttgart, pp. 133-145.
- and G. Kantlivas. 2004. *Hertelidea*, genus novum *Stereocaulacearum* (Ascomycetes lichenisati). In: Döbbele, P. and G. Rambold (eds.): *Contributions to lichenology. Festschrift in honor of Hans Hertel*. *Bibliotheca Lichenologica*, J. Cramer in der Gerbrüder Borntraeger, Berlin, Stuttgart, pp. 539-553.
- Robinson, H. 1959. Lichen succession in abandoned fields in the Piedmont of North Carolina. *The Bryologist* 62: 254-259.
- South Carolina Association of Naturalists. 1996. Bigleaf Magnolia Site, Gaston County, NC flora/fauna list.
<http://www.scnaturalists.org/archive/may96.html>
- . 1997. Paysour Mountain, Gaston County, NC flora/fauna list.
<http://www.scnaturalists.org/archive/fllists/nov97ff.html>
- . 1998. Whitehall Nature Preserve, Mecklenberg County, NC flora/fauna list.
<http://www.scnaturalists.org/archive/fllists/mar98ff.html>

U. S. Geological Survey. 2005. NPLichen, a database of lichens in the U.S. National Parks March 1, 2005 version.
<http://www.ies.wisc.edu/nplichen>. Accessed April 20, 2005.

Wetmore C.M. 1970. The lichen family Heppiaceae in North America. *Ann. Missouri Bot. Garden* 57: 158-209.

--- and E.I. Kärnefelt. 1999. What is *Caloplaca cinnabrina*? *The Bryologist* 102(4): 683-691.