

## A Preliminary List of the Lichens of New York

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ABSTRACT. – A list of 808 species and 7 subspecific taxa of lichens known to the author to occur in New York state is presented. The new combination *Myriospora immersa* (Fink ex J. Hedrick) R. C. Harris is made.

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The rationale for publishing this admittedly incomplete list of New York's lichens is that I am unlikely to ever have time to improve it significantly. The list has been accumulated more or less haphazardly over a period of twenty plus years. Many problems have been left unresolved. It is largely based on specimens held by The New York Botanical Garden (NY), Brooklyn Botanic Garden (BKL) and Buffalo Museum of Science (BUF), to a lesser extent Cornell University (CUP) and Farlow Herbarium, Harvard University (FH) and a few from New York State Museum (NYS). The holdings of the New York State Museum represent a large collection not yet fully studied and will surely add significantly to knowledge of the state's lichen diversity. Surviving specimens for the earliest publication on New York lichens by Halsey (1824) are yet to be studied. Voucher information is available from the author upon request. The collections in BKL and BUF have been databased and copies can also be made available. For those interested, the history of lichenology in New York has been summarized by LaGreca (2001). Some literature records have been included if I consider them reliable, i.e., Brodo (1968) or significant, i.e., Lowe (1939). No doubt I have missed some worthy literature records in recent revisions. Sufficient time has passed since many of the determinations were made so that some of them surely require a fresh look.

Over the years I have occasionally been asked which lichens might be rare or endangered in the state. I have been reluctant to deal with this question. Many undoubtedly rare microlichens are beyond the abilities of anyone other than a specialist to track, requiring chemical analysis or detailed microscopic study for confirmation. It is also rather difficult to pronounce with authority on the rarity of even relatively conspicuous macrolichens as New York State is poorly collected. However, it is, perhaps, useful to include a list of relatively conspicuous lichens which seem rare, some possibly extinct (Appendix 2). With the advent of 'Lichens of North America' (Brodo et al., 2001) it is now possible for non-specialists to identify and monitor many of these species. Lichens restricted to the Arctic-alpine zone of New York's mountains are not included in the list of rare lichens as they are already amply protected but a separate list is provided in case it may prove useful in monitoring climate change (Appendix 3). A short list of Coastal Plain or southern species confined to Long Island is provided with an eye to providing ammunition for increased preservation of critical habitat (Appendix 4). Interestingly some of the species of the Arctic-alpine and Coastal Plain appear at relatively low elevation or inland sites respectively in the Shawangunk Mountains (Dirig, 1994). Two southern macrolichens recently discovered in southern New York might repay monitoring as indicators of climate warming, *Pyxine subcinerea* (Amtoft, 2002) and *Xanthoparmelia subramigera*.

While most personal quirks are minor, one requires a brief comment. It seems useful to retain *Buellia* in a broad sense since Marbach (2000) does not treat many North American taxa nor any entirely saxicolous species. Also, sequencing studies indicate present familial and generic concepts are unsatisfactory but have not yet provided any practical solutions. Marbach (2000) places *Buellia turgescens* Tuckerman in *Amandinea*. He did not see conidia. I have found conidia in several New England collections. They are ellipsoid to narrowly ellipsoid. Therefore the species is retained in *Buellia*. (An additional complication is an extremely similar undescribed taxon in the Midwest which does have typical *Amandinea* type conidia.)

The taxonomy and nomenclature presented here follow generally accepted authorities with occasional corrections or personal eccentricities. Author citations are simplified to the describing author. Families and genera once thought to be lichen forming which I now consider to be not so, e.g., Arthopyreniaceae and *Multiclavula* R. Peterson, are omitted. Lichenicolous fungi are not included. Unidentified species are included when they are the only known New York representative of a genus or if especially common. Some less than reliable determinations are included with '?'. Species described from New York are indicated with an asterisk

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("\*"). Species described from New York but not currently accepted are listed in Appendix 1. If no voucher of a taxon is held by NY, the herbarium is indicated after the name or a reference is cited.

## LICHENS OF NEW YORK

*Absconditella lignicola* Vězda & Pišút  
*Absconditella sphagnorum* Vězda  
*Acarospora cervina* A. Massalongo  
*Acarospora fuscata* (Nylander) Arnold  
*Acarospora glaucocarpa* (Acharius) Körber  
*Acarospora moenium* (Vainio) Räsänen  
*Acarospora oligospora* (Nylander) Arnold  
*Acarospora sinopica* (Wahlenberg) Körber  
*Acarospora smaragdula* (Acharius) A. Massalongo *s. lat.*  
*Acarospora veronensis* A. Massalongo  
*Acrocordia megalospora* (Fink) R. C. Harris  
*Adelolecia kolaensis* (Nylander) Hertel & Rambold (Lowe, 1939 as *Lecidea conferenda*)  
*Agonimia gelatinosa* (Acharius) M. Brand & Diederich  
*Ahtiana aurescens* (Tuckerman) Thell & Randle  
*Alectoria fallacina* Motyka  
*Allocetraria oakesiana* (Tuckerman) Randle & Thell  
*Amandinea dakotensis* (H. Magnusson) P. May & Sheard  
*Amandinea milliaria* (Tuckerman) P. May & Sheard  
*Amandinea polyspora* (Willey) E. Lay & P. May  
*Amandinea punctata* (Hoffmann) Coppins & Scheidegger  
*Amygdalaria paneola* (Acharius) Hertel & Brodo  
*Anaptychia palmulata* (Michaux) Vainio  
*Anaptychia setifera* Räsänen  
*Anisomeridium carinthiacum* (J. Steiner) R. C. Harris  
*Anisomeridium polypori* (Ellis & Everhart) M. E. Barr  
*Anzia colpodes* (Acharius) Stizenberger  
*Arctoparmelia centrifuga* (L.) Hale  
*Arctoparmelia incurva* (Persoon) Hale (FH)  
*Arctoparmelia subcentrifuga* (Oksner) Hale  
*Arthonia byssacea* (Weigel) Almquist  
*Arthonia caesia* (Körber) Körber  
*Arthonia caudata* Willey  
*Arthonia didyma* Körber  
*Arthonia diffusella* J. Hedrick  
*Arthonia helvola* (Nylander) Nylander  
*Arthonia lapadicola* (Taylor) Branth & Rostrup  
*Arthonia mediella* Nylander (Brodo, 1968)  
*Arthonia polymorpha* Acharius (Brodo, 1968)  
*Arthonia punctiformis* Acharius  
*Arthonia radiata* (Persoon) Acharius  
*Arthonia sexlocularis* Zahlbruckner (Brodo, 1968)  
*Arthonia siderea* Degelius (Brodo, 1968)  
*Arthonia spadicea* Leighton  
*Arthothelium spectabile* A. Massalongo  
*Arthothelium taediosum* auct. Amer. (Brodo, 1968)  
*Arthrorhaphis citrinella* (Acharius) Poelt  
*Arthrosporum populorum* A. Massalongo  
*Aspicilia caesiocinerea* (Malbranche) Arnold  
*Aspicilia cinerea* (L.) Körber  
*Aspicilia laevata* (Acharius) Arnold  
*Aspicilia verrucigera* Hue  
*Bacidia arceutina* (Acharius) Arnold (Ekman, 1996)  
*Bacidia bagliettoana* (A. Massalongo & De Not.) Jatta  
*Bacidia circumspecta* (Vainio) Malme

*Bacidia granosa* (Tuckerman ) Zahlbruckner  
*Bacidia laurocerasi* (Duby) Zahlbruckner  
*Bacidia polychroa* (Th. Fries) Körber  
*Bacidia rubella* (Hoffmann) A. Massalongo  
*Bacidia schweinitzii* (Michener) A. Schneider  
*Bacidia suffusa* (Fries) A. Schneider  
*Bacidina chlorotricula* (Nylander) Poelt & Vězda?  
*Bacidina delicata* (Leighton) V. Wirth & Vězda  
*Bacidina egenula* (Nylander) Vězda  
*Bacidina inundata* (Fries) Vězda  
*Baeomyces rufus* (Hudson) Rebut.  
*Bellemerea cinereorufescens* (Acharius) Clauzade & Roux  
*Biatora longispora* (Degelius) Lendemmer & Printzen  
*Biatora pontica* Printzen & Tønsberg  
*Biatora printzenii* Tønsberg  
*Biatora toensbergii* Printzen s. lat.  
*Biatora vernalis* (L.) Fries  
*Botryolepraria lesdainii* (Hue) Canals et al.  
*Bryoria furcellata* (Fries) Brodo & D. Hawksworth  
*Bryoria fuscescens* (Gyelnik) Brodo & D. Hawksworth  
*Bryoria implexa* (Hoffmann) Brodo & D. Hawksworth (BUF)  
*Bryoria nadvornikiana* (Gyelnik) Brodo & D. Hawksworth  
*Bryoria subcana* (Stizenberger) Brodo & D. Hawksworth (Schmull et al., 2002)  
*Bryoria trichodes* (Michaux) Brodo & D. Hawksworth ssp. *trichodes*  
*Buellia alboatra* (Hoffmann) Th. Fries  
*Buellia curtisii* (Tuckerman ) Imshaug  
*Buellia dialyta* (Nylander) Tuckerman  
*Buellia griseovirens* (Sm.) Almborn  
*Buellia "parasema v. polyspora* Imshaug ined."  
*Buellia schaereri* De Not.  
*Buellia spuria* (Schaerer) Anzi  
*Buellia stillingiana* J. Steiner  
*Buellia turgescens* Tuckerman (BUF)  
*Buellia venusta* (Körber) Lettau  
*Buellia vernicoma* (Tuckerman) Tuckerman  
*Calicium glaucellum* Acharius  
*Calicium parvum* Tibell  
*Calicium quercinum* Persoon  
*Calicium salicinum* Persoon (NYS)  
*Calicium trabinellum* (Acharius) Acharius  
*Caloplaca camptidia* (Tuckerman) Zahlbruckner (Wetmore, 1994)  
*Caloplaca cerina* (Hedwig) Th. Fries  
*Caloplaca cirrochroa* (Acharius) Th. Fries (Wetmore & Kärnefelt, 1998)  
*Caloplaca citrina* (Hoffmann) Th. Fries  
*Caloplaca discolor* (Willey) Fink  
*Caloplaca feracissima* H. Magnusson  
*Caloplaca flavorubescens* (Hudson) J. R. Laundon  
*Caloplaca flavovirescens* (Wulfen) Dalla Torre & Sarnth.  
*Caloplaca holocarpa* (Hoffmann) Wade  
*Caloplaca lobulata* (Flörke) de Lesdain  
*Caloplaca obscurella* (Körber) Th. Fries (Wetmore, 1994)  
*Caloplaca oxfordensis* J. Hedrick  
*Caloplaca pollinii* (A. Massalongo) Jatta  
*Caloplaca saxicola* (Hoffmann) Nordin  
*Caloplaca sideritis* (Tuckerman) Zahlbruckner  
*Caloplaca stillicidiorum* (Vahl) Lyngby (BUF)  
*Caloplaca subsoluta* (Nylander) Zahlbruckner  
*Caloplaca* sp. (*C. scotoplaca* sensu R. C. Harris, Wetmore, 1996)  
*Candelaria concolor* (Dickson) Stein

*Candelaria fibrosa* (Fries) Müll. Arg.  
*Candelariella aurella* Hoffmann Zahlbruckner  
*Candelariella efflorescens* R. C. Harris & W.R. Buck  
*Candelariella vitellina* Hoffmann Müll. Arg.  
*Candelariella xanthostigma* (Acharius) Lettau  
*Catillaria lenticularis* (Acharius) Th. Fries  
*Catillaria modesta* (Müll. Arg.) Coppins? (BUF)  
*Catillaria nigroclavata* (Nylander) Schuler? (Brodo, 1968 as *C. glauconigrans*)  
*Cetraria arenaria* Kärnefelt  
*Cetraria ericetorum* Opiz ssp. *reticulata* (Räsänen) Kärnefelt  
*Cetraria laevigata* Rassadina  
*Cetraria muricata* (Acharius) Eckfeldt  
*Cetrariella delisei* (Schaerer) Kärnefelt & Thell  
*Cetrelia cetrarioides* (Duby) Culberson & C. Culberson  
*Cetrelia chicitae* (Culberson) Culberson & C. Culberson  
*Cetrelia olivetorum* (Nylander) Culberson & C. Culberson  
*Chaenotheca brunneola* (Acharius) Müll. Arg.  
*Chaenotheca chrysocephala* (Acharius) Th. Fries  
*Chaenotheca ferruginea* (Turner & Borrer) Migula  
*Chaenotheca furfuracea* (L.) Tibell  
*Chaenotheca hygrophila* Tibell  
*Chaenotheca laevigata* Nádvořník  
*Chaenotheca stemonea* (Acharius) Müll. Arg.  
*Chaenotheca trichialis* (Acharius) Th. Fries  
*Chaenotheca xyloxena* Nádvořník  
*Chaenothecopsis brevipes* Tibell (Selva, 1998)  
*Chaenothecopsis debilis* (Sm.) Tibell  
*Chaenothecopsis ochroleuca* (Körber) Tibell & Ryman  
*Chaenothecopsis pusilla* (Acharius) A. Schmidt  
*Chaenothecopsis pusiola* (Acharius) Vainio  
*Chaenothecopsis rubescens* Vainio (Selva, 1998)  
*Chaenothecopsis savonica* (Räsänen) Tibell  
*Chaenothecopsis viridireagens* (Nádvořník) A. Schmidt  
*Chrysothrix candelaris* (L.) J. R. Laundon  
*Cladonia acuminata* (Acharius) Norrlin  
*Cladonia acuminata* var. *norrlinii* (Vainio) Lyngby  
*Cladonia amaurocraea* (Flörke) Schaerer  
*Cladonia apodocarpa* Robbins  
*Cladonia arbuscula* (Wallroth) Flotow  
*Cladonia atlantica* A. Evans  
*Cladonia beaumontii* (Tuckerman) Vainio  
*Cladonia borealis* Stenroos  
*Cladonia boryi* Tuckerman  
*Cladonia botrytes* (Hagen) Willdenow  
*Cladonia brevis* Sandstede  
*Cladonia caespiticia* (Persoon) Flörke  
*Cladonia cariosa* (Acharius) Sprengel  
*Cladonia carneola* (Fries) Fries  
*Cladonia caroliniana* Tuckerman  
*Cladonia cenotea* (Acharius) Schaerer  
*Cladonia chlorophaea* (Sommerfelt) Sprengel  
*Cladonia coniocraea* (Flörke) Sprengel  
*Cladonia conista* A. Evans  
*Cladonia cornuta* (L.) Hoffmann  
*Cladonia crispata* (Acharius) Flotow  
*Cladonia cristatella* Tuckerman  
*Cladonia cryptochlorophaea* Asahina  
*Cladonia cyanipes* (Sommerfelt) Nylander  
*Cladonia cylindrica* (A. Evans) A. Evans

*Cladonia dahliana* Kristinsson  
*Cladonia decorticata* (Flörke) Sprengel  
*Cladonia deformis* (L.) Hoffmann  
*Cladonia didyma* (Fee) Vainio (Brodo, 1968)  
*Cladonia digitata* (L.) Hoffmann  
*Cladonia dimorphoclada* Robbins (incl. *Cladonia psoromica* Dey)  
*Cladonia evansii* Abbayes (Brodo, 1968)  
*Cladonia farinacea* (Vainio) A. Evans  
*Cladonia fimbriata* (L.) Fries  
*Cladonia floerkeana* (Fries) Flörke  
*Cladonia floridana* Sandstede  
*Cladonia furcata* (Hudson) Schrader  
*Cladonia glauca* Flörke  
*Cladonia gracilis* (L.) Willdenow ssp. *gracilis*  
*Cladonia gracilis* ssp. *elongata* (Wulfen) Vainio  
*Cladonia gracilis* ssp. *turbinata* (Acharius) Ahti  
*Cladonia grayi* Sandstede  
*Cladonia incrassata* Flörke  
*Cladonia macilenta* Hoffmann (incl. *Cladonia bacillaris* Genth)  
*Cladonia macrophylla* (Schaerer) Stenhammar  
*Cladonia mateocyatha* Robbins  
*Cladonia maxima* (Asahina) Ahti  
*Cladonia merochlorophaea* Asahina  
*Cladonia metacorallifera* Asahina  
*Cladonia mitis* Sandstede  
*Cladonia multififormis* G. Merrill  
*Cladonia ochrochlora* Flörke  
*Cladonia parasitica* (Hoffmann) Hoffmann  
*Cladonia petrophila* R. C. Harris  
*Cladonia peziziformis* (Withering) J. R. Laundon  
*Cladonia phyllophora* Hoffmann  
*Cladonia piedmontensis* G. Merrill  
*Cladonia pleurota* (Flörke) Schaerer  
*Cladonia pocillum* (Acharius) Grognot  
*Cladonia polycarpoides* Nylander  
*Cladonia pyxidata* (L.) Hoffmann  
*Cladonia ramulosa* (Withering) J. R. Laundon  
*Cladonia rangiferina* (L.) F.H. Wiggers  
*Cladonia rappii* A. Evans var. *exilior* (Abbayes) Ahti  
*Cladonia rei* Schaerer  
*Cladonia robbinsii* A. Evans  
*Cladonia santensis* Tuckerman (Brodo, 1968)  
*Cladonia scabriuscula* (Delise) Leighton  
*Cladonia simulata* Robbins (Brodo, 1968)  
*Cladonia sobolescens* Vainio  
*Cladonia squamosa* Hoffmann  
*Cladonia stellaris* (Opiz) Pouzar & Vězda  
*Cladonia strepsilis* (Acharius) Grognot  
*Cladonia stygia* (Fries) Ruoss  
*Cladonia submitis* A. Evans  
*Cladonia subtenuis* (Abbayes) Mattick  
*Cladonia subulata* (L.) F.H. Wiggers  
*Cladonia sulphurina* (Michaux) Fries  
*Cladonia terraenovae* Ahti (Brodo, 1968)  
*Cladonia turgida* Hoffmann  
*Cladonia uncialis* (L.) F.H. Wigg.  
*Cladonia verticillata* (Hoffmann) Schaerer  
*Cladonia wainioi* Savicz  
*Clauzadea monticola* (Schaerer) Hafellner & Bellemere

*Claudzadeana macula* (Taylor) Coppins & Rambold  
*Coccocarpia palmicola* (Sprengel) Arvidsson & D.J. Galloway  
*Coenogonium luteum* (Dickson) Kalb & Lücking  
*Coenogonium pineti* (Acharius) ined.  
*Collema bachmanianum* (Fink) Degelius  
*Collema coccophorum* Tuckerman  
*Collema conglomeratum* Hoffmann  
*Collema flaccidum* (Acharius) Acharius  
*Collema fragrans* (Sm.) Acharius (BUF)  
*Collema furfuraceum* (Arnold) Du Rietz  
*Collema nigrescens* (Hudson) DC.  
*Collema pulcellum* Acharius  
*Collema rysssoleum* (Tuckerman) A. Schneider  
*Collema subflaccidum* Degelius  
*Collema tenax* (Swartz) Acharius  
*Collema undulatum* Flotow var. *granulosum* Degelius  
*Conotrema urceolatum* (Acharius) Tuckerman  
*Cresponea chloroconia* (Tuckerman) Egea & Torrente  
*Cyphelium lucidum* (Th. Fries) Th. Fries (Selva, 1998)  
*Cyphelium tigillare* (Acharius) Acharius  
*Cystocoleus ebeneus* (Dillwyn) Thwaites  
*Dermatocarpon americanum* Vainio  
*Dermatocarpon intestiniforme* (Körber) Hasse  
*Dermatocarpon luridum* (Withering) J. R. Laundon  
*Dibaeis baeomyces* (L. f.) Rambold & Hertel  
*Dictyocatenulata alba* Finley & E. F. Morris  
*Dimelaena oreina* (Acharius) Norman  
*Diploschistes muscorum* (Scopoli) R. Santesson  
*Diploschistes scruposus* (Schreber) Norman  
*Dirinaria frostii* (Tuckerman) Hale & Culberson  
*Endocarpon pusillum* Hedwig  
*Eopyrenula intermedia* Aptroot  
*Ephebe lanata* (L.) Vainio  
*Evernia mesomorpha* Nyl  
*Evernia prunastri* (L.) Acharius  
*Flavocetraria cucullata* (Bellardi) Kärnefelt & Thell  
*Flavocetraria nivalis* (L.) Kärnefelt & Thell  
*Flavoparmelia baltimorensis* (Gyelnik & Főriss) Hale  
*Flavoparmelia caperata* (L.) Hale  
*Flavopunctelia flaventior* (Stirton) Hale  
*Fuscidea arboricola* Tønsberg  
*Fuscidea kochiana* (Hepp) V. Wirth & Vězda (Lowe, 1939)  
*\*Fuscidea lowensis* (H. Magnusson) R. Anderson & Hertel  
*Fuscidea praeruptorum* (Du Rietz & H. Magnusson) V. Wirth & Vězda (Lowe, 1939 as Lecidea)  
*Fuscidea pusilla* Tønsberg  
*Fuscidea recensa* (Stirton) Hertel, V. Wirth & Vězda  
*\*Fuscidea subreagens* (H. Magnusson) Oberhollenzer & V. Wirth  
*Fuscopannaria leucophaea* (Vahl) P. M. Jørgensen  
*Fuscopannaria leucosticta* (Tuckerman) P. M. Jørgensen  
*Graphis scripta* (L.) Acharius  
*Gyalecta jenensis* (Batsch) Zahlbruckner  
*Gyalideopsis* sp.  
*Hafellia arnoldii* (Servít)Hafellner & Türk  
*Hafellia disciformis* (Fries) Marbach & H. Mayrhofer  
*Halecania* sp.  
*Heppia adglutinata* (Kempelhuber) A. Massalongo  
*Hertelidea botryosa* (Fries) Printzen & Kantvilas  
*Heterodermia echinata* (Taylor) Culberson (FH)  
*Heterodermia galactophylla* (Tuckerman) Culberson

*Heterodermia hypoleuca* (Muhlenberg) Trevisan  
*Heterodermia leucomelos* (L.) Poelt  
*Heterodermia obscurata* (Nylander) Trevisan  
*Heterodermia speciosa* (Wulfen) Trevisan  
*Heterodermia squamulosa* (Degelius) Culberson  
*Hydrothyria venosa* J. L. Russell  
*Hyperphyscia adglutinata* Flörke) Mayrhofer & Poelt  
*Hyperphyscia syncolla* (Nylander) Kalb  
*Hypocomyce anthracophila* (Nylander) P. James & Gotth. Schneider  
*Hypocomyce friesii* (Acharius) P. James & Gotth. Schneider  
*Hypocomyce scalaris* (Acharius) M. Choisy  
*Hypogymnia appalachensis* Pike *ined.*  
*Hypogymnia krogiae* Ohlsson  
*Hypogymnia physodes* (L.) Nylander  
*Hypogymnia tubulosa* (Schaerer) Havaas  
*Hypogymnia vittata* (Acharius) Parrique  
*Hypotrachyna livida* (Taylor) Hale  
*Hypotrachyna rockii* (Zahlbruckner) Hale (FH)  
*Icmadophila ericetorum* (L.) Zahlbruckner  
*Imshaugia aleurites* (Acharius) Meyer  
*Imshaugia placorodia* (Acharius) Meyer  
*Ionaspis alba* Lutzoni  
*Ionaspis lacustris* (Withering) J. R. Laundon  
*Japewia tornensis* (Nylander) Tønsberg (Lowe, 1939 as *Lecidea*)  
*Lasallia papulosa* (Acharius) Llano  
*Lasallia pensylvanica* Hoffmann Llano  
*Lecania cuprea* (A. Massalongo) v. d. Boom & Coppins  
*Lecania cyrtella* (Acharius) Th. Fries  
*Lecania naegelia* (Hepp) Diederich & v. d. Boom  
*Lecania perproxima* (Nylander) Zahlbruckner  
*Lecanora albella* (Persoon) Acharius (Imshaug & Brodo, 1966)  
*Lecanora albella* var. *rubescens* (Imsh. & Brodo) Lumbsch  
*Lecanora albescens* (Hoffmann) Flörke  
*Lecanora allophana* (Acharius) Nylander  
*Lecanora argentea* Oksner & Volkova  
*Lecanora argentata* (Acharius) Malme (BUF)  
*Lecanora cadubriae* (A. Massalongo) Hedlund (Lowe, 1939 as *Lecidea*)  
*Lecanora caesiorubella* Acharius ssp. *caesiorubella*  
*Lecanora chlarotera* Nylander  
*Lecanora cinereofusca* H. Magnusson  
*Lecanora cinereofusca* var. *appalachensis* Brodo  
*Lecanora circumborealis* Brodo & Vitikainen  
*Lecanora cupressi* Tuckerman (Brodo, 1968)  
*Lecanora dispersa* (Persoon) Sommerfelt  
*Lecanora flotowiana* Sprengel  
*Lecanora fuscescens* (Sommerfelt) Nylander (Lowe, 1939 as *Lecidea*)  
*Lecanora glabrata* (Acharius) Malme  
*Lecanora hagenii* (Acharius) Acharius  
*Lecanora hybocarpa* (Tuckerman ) Brodo  
*Lecanora hypopta* (Acharius) Vainio (Lowe, 1939 as *Lecidea*)  
*Lecanora impudens* Degelius  
*Lecanora imshaugii* Brodo  
*Lecanora intricata* (Acharius) Acharius  
*Lecanora invadens* H. Magnusson  
*Lecanora louisianae* de Lesdain (Brodo, 1984)  
*Lecanora minutella* Nylander  
*Lecanora muralis* (Schreber) Rabenhorst  
*Lecanora perplexa* Brodo  
*\*Lecanora placidensis* (H. Magnusson) Knoph, Leuckert & Rambold

*Lecanora polytropa* (Hoffmann) Rabenhorst  
*Lecanora pseudistera* Nylander  
*Lecanora pulicaris* (Persoon) Acharius  
*Lecanora rugosella* Zahlbruckner  
*Lecanora sambuci* (Persoon) Nylander  
*Lecanora strobilina* (Sprengel) Kieffer  
*Lecanora subimmergens* Vainio  
*Lecanora subpallens* Zahlbruckner  
*Lecanora subrugosa* Nylander  
*Lecanora symmicta* auct.  
*Lecanora thysanophora* R. C. Harris  
*Lecanora umbrosa* Degelius?  
*Lecanora valesiaca* (Müll. Arg.) Stizenberger  
*Lecanora wisconsinensis* H. Magnusson  
*Lecanora xylophila* Hue  
*Lecidea ahlesii* (Körber) Nylander  
*Lecidea albofuscescens* Nylander  
*\*Lecidea amniculensis* Lowe (Lowe, 1939)  
*Lecidea atomaria* Th. Fries (FH)  
*Lecidea auriculata* Th. Fries  
*Lecidea berengeriana* (A. Massalongo) Nylander  
*\*Lecidea brunneofusca* H. Magnusson  
*Lecidea carnulenta* (Tuckerman) Fink (Lowe, 1939)  
*\*Lecidea cellularis* Lowe (FH)  
*\*Lecidea columnata* Lowe (Lowe, 1939)  
*Lecidea cyrtidia* Tuckerman  
*Lecidea delincta* Nylander  
*Lecidea diapensiae* Th. Fries (FH)  
*Lecidea erythrophaea* Flörke  
*\*Lecidea furva* Lowe (Lowe, 1939)  
*\*Lecidea humilis* Lowe  
*Lecidea hypnorum* Libert  
*Lecidea lapicida* (Acharius) Acharius  
*Lecidea lithophila* (Acharius) Acharius (Lowe, 1939)  
*Lecidea lynceola* Th. Fries (Lowe, 1939)  
*Lecidea lyngei* Degelius  
*Lecidea marciensis* Lowe  
*Lecidea myriocarpoides* Nylander  
*\*Lecidea nemoralis* Lowe (FH)  
*Lecidea nylanderi* (Anzi) Th. Fries  
*Lecidea olivascens* Th. Fries  
*Lecidea plana* (Lahm) Nylander  
*Lecidea plebeja* Nylander  
*\*Lecidea pulla* Lowe (Lowe, 1939)  
*Lecidea pycnocarpa* (Körber) Ohlert  
*\*Lecidea rugosa* Lowe (Lowe, 1939)  
*Lecidea sphacelata* Th. Fries  
*\*Lecidea subramosa* Lowe  
*Lecidea tessellata* Flörke  
*Lecidea turgidula* Fries  
*Lecidea virginienensis* Calkins & Nylander  
*Lecidella achristotera* (Nylander) Hertel & Leuckert (FH)  
*Lecidella elaeochroma* (Acharius) M. Choisy  
*Lecidella stigmathea* (Acharius) Hertel & Leuckert  
*Lecidoma demissum* (Rutstr.) G. Schneid. & Hertel  
*Lempholemma cladodes* (Tuckerman) Zahlbruckner (BUF, NYS)  
*Lempholemma polyanthes* (Bernh.) A. Massalongo  
*Lepraria cacuminum* (A. Massalongo) Lohtander?  
*Lepraria caesioalba* (de Lesdain) J. R. Laundon



*Lepraria elobata* Tønsberg  
*Lepraria incana* (L.) Acharius  
*Lepraria lobificans* Nylander  
*Lepraria membranacea* (Dickson)  
*Lepraria neglecta* (Nylander) Erichsen  
*Lepraria neglecta* s. lat. (psoromic acid)  
*Lepraria rigidula* (de Lesdain) Tønsberg  
*Lepraria vouauxii* (Hue) R. C. Harris  
*Lepraria* sp. (atranorin, zeorin)  
*Lepraria* sp. (fumarprotocetraric or protocetraric acid)  
*Leptogium azureum* (Swartz) Montagne  
*Leptogium chloromelum* (Swartz) Nylander (BUF)  
*Leptogium corticola* (Taylor) Tuckerman  
*Leptogium cyanescens* (Rabenhorst) Körber  
*Leptogium dactylinum* Tuckerman  
*Leptogium hirsutum* Sierk  
*Leptogium juniperinum* Tuckerman  
*Leptogium laceroides* de Lesdain (Sierk, 1964)  
*Leptogium lichenoides* (L.) Zahlbruckner  
*Leptogium millegranum* Sierk (BUF)  
*Leptogium saturninum* (Dickson) Nylander  
*Leptogium subtile* (Schrader) Torss.  
*Leptogium tenuissimum* (Dickson) Körber  
*Leptogium teretiusculum* (Wallroth) Arnold  
*Lichenomphalia hudsoniana* (H. S. Jenn.) Redhead, Lutzoni, Moncalvo, & Vilgalys  
*Lichinella nigritella* (Lettau) Moreno & Egea  
*Lithothelium hyalosporum* (Nylander) Aptroot  
*Lithothelium septemseptatum* (R. C. Harris) Aptroot  
*Lobaria pulmonaria* (L.) Hoffmann  
*Lobaria quercizans* Michaux  
*Lopadium disciforme* (Flotow) Kullhem  
*Loxospora cismonica* (Beltr.) Hafellner  
*Loxospora elatina* (Acharius) A. Massalongo  
*Loxospora ochrophaea* (Tuckerman) R. C. Harris  
*Loxospora pustulata* (Brodo & Culberson) R. C. Harris  
*Maronea polyphaea* H. Magnusson  
*Megalaria laureri* (Th. Fries) Hafellner  
*Megalospora porphyritis* (Tuckerman) R. C. Harris  
*Megaspora verrucosa* (Acharius) Hafellner & V. Wirth  
*Melanelia culbersonii* (Hale) Thell  
*Melanelia disjuncta* (Erichsen) Esslinger  
*Melanelia exasperata* (De Notaris) Esslinger  
*Melanelia fuliginosa* (Duby) Esslinger  
*Melanelia halei* (Ahti) Esslinger  
*Melanelia hepatizon* (Acharius) Thell  
*Melanelia infumata* (Nylander) Esslinger  
*Melanelia olivacea* (L.) Esslinger  
*Melanelia panniformis* (Nylander) Esslinger  
*Melanelia septentrionalis* (Lyngé) Esslinger  
*Melanelia sorediata* (Acharius) Goward & Ahti  
*Melanelia stygia* (L.) Esslinger  
*Melanelia subaurifera* (Nylander) Esslinger  
*Menegazzia terebrata* (Hoffmann) A. Massalongo  
*Micarea chlorosticta* (Tuckerman) R. C. Harris  
*Micarea crassipes* (Th. Fries) Coppins  
*Micarea endocyanea* (Tuckerman) R. C. Harris  
*Micarea erratica* (Körber) Hertel, Rambold & Pietschmann  
*Micarea leprosula* (Th. Fries) Coppins & A. Fletcher  
*Micarea lignaria* (Acharius) Hedlund

*Micarea lithinella* (Nylander) Hedlund  
*Micarea melaena* (Nylander) Hedlund  
*Micarea misella* (Nylander) Hedlund  
*Micarea neostiptata* Coppins & P. May  
*Micarea peliocarpa* (Anzi) Coppins & R. Santesson  
*Micarea prasina* Fries  
*Micarea rhabdogena* (Norman) Hedlund (FH)  
*Micarea sylvicola* (Flotow) Vězda & V. Wirth  
*Micarea ternaria* (Nylander) Vězda  
*Microcalicium ahlneri* Tibell  
*Microcalicium disseminatum* (Acharius) Vainio  
*Mirquidica* sp.  
*Mycobilimbia carnealbida* (Müll. Arg.) Printzen  
*Mycobilimbia epixanthoides* (Nylander) Vitikainen, Ahti, Kuusinen, Lommi & T. Ulvinen  
*Mycoblastus affinis* (Schaeerer) Schauer  
*Mycoblastus fucatus* (Stirton) Zahlbruckner  
*Mycoblastus sanguinarius* (L.) Norman  
*Mycocalicium subtile* (Persoon) Szatala  
*Mycoporum compositum* (A. Massalongo) R. C. Harris  
*Mycoporum pycnocarpoides* Müll. Arg.  
*Myelochroa aurulenta* (Tuckerman) Elix & Hale  
*Myelochroa galbina* (Acharius) Elix & Hale  
*Myriospora immersa* (J. Hedrick) R. C. Harris *comb. nov.*<sup>1</sup>  
*Myxobilimbia sabuletorum* (Schreber) Hafellner  
*Nadvornikia sorediata* R. C. Harris  
*Nephroma arcticum* (L.) Torss.  
*Nephroma bellum* (Sprengel) Tuckerman  
*Nephroma helveticum* Acharius  
*Nephroma parile* (Acharius) Acharius  
*Ochrolechia africana* Vainio (Brodo, 1968 as *Ochrolechia* sp.)  
*Ochrolechia androgyna* (Hoffmann) Arnold  
*Ochrolechia arborea* (Kreyer) Almborn  
*Ochrolechia mexicana* Vainio (Brodo, 1991)  
*Ochrolechia pseudopallescens* Brodo  
*Ochrolechia tartarea* (L.) A. Massalongo  
*Ochrolechia trochophora* (Vainio) Oshio  
*Ochrolechia trochophora* var. *pruinirosella* Brodo  
*Ochrolechia yasudae* Vainio  
*Opegrapha atra* Persoon  
*Opegrapha rufescens* Persoon (Brodo, 1968)  
*Opegrapha varia* Persoon  
*Opegrapha vulgata* Acharius  
*Ophioparma ventosa* (L.) Norman (BUF)  
*Orphniospora moriopsis* (A. Massalongo) D. Hawksworth  
*Pannaria lurida* (Mont.) Nylander ssp. *russellii* (Tuckerman) P. M. Jørgensen (BUF)  
*Pannaria subfusca* P. M. Jørgensen  
*Parmelia omphalodes* (L.) Acharius  
*Parmelia neodiscordans* Hale  
*Parmelia saxatilis* (L.) Acharius  
*Parmelia squarrosa* Hale  
*Parmelia sulcata* Taylor  
*Parmeliopsis ambigua* (Wulfen) Nylander  
*Parmeliopsis capitata* R.C. Harris ex J. Hinds & P. Hinds  
*Parmeliopsis hyperopta* (Acharius) Arnold  
*Parmeliopsis subambigua* Gyelnik  
*Parmotrema arnoldii* (Du Rietz) Hale (CUP)  
*Parmotrema chinense* (Osbeck) Hale & Ahti  
*Parmotrema crinitum* (Acharius) M. Choisy  
*Parmotrema hypoleucinum* (Stein) Hale

*Parmotrema hypotropum* (Nylander) Hale  
*Parmotrema margaritatum* (Hue) Hale  
*Parmotrema perforatum* (Jacquin) A. Massalongo  
*Parmotrema stuppeum* (Taylor) Hale  
*Parmotrema submarginale* (Michaux) DePriest & B. Hale (FH)  
*Peltigera aphthosa* (L.) Willdenow  
*Peltigera canina* (L.) Willdenow  
*Peltigera degenii* Gyelnik  
*Peltigera didactyla* (Withering) J. R. Laundon  
*Peltigera elisabethae* Gyelnik  
*Peltigera evansiana* Gyelnik  
*Peltigera extenuata* (Vainio) Lojka  
*Peltigera horizontalis* (Hudson) Baumgartner  
*Peltigera hymenina* (Acharius) Delise  
*Peltigera lepidophora* (Vainio) Bitter  
*Peltigera leucophlebia* (Nylander) Gyelnik  
*Peltigera membranacea* (Acharius) Nylander  
*Peltigera neckeri* Müll. Arg.  
*Peltigera neopolydactyla* (Gyelnik) Gyelnik  
*Peltigera polydactylon* (Necker) Hoffmann  
*Peltigera praetextata* (Sommerfelt) Zopf  
*Peltigera rufescens* (Weiss) Humboldt  
*Pertusaria alpina* Ahles  
*Pertusaria amara* (Acharius) Nylander  
*Pertusaria consocians* Dibben  
*Pertusaria dactylina* (Acharius) Nylander (Dibben, 1980)  
*Pertusaria globularis* (Acharius) Tuckerman  
*Pertusaria hypothamnica* Dibben (Dibben, 1980)  
*Pertusaria leucostoma* (Bernhardi) A. Massalongo  
*Pertusaria macounii* (Lamb) Dibben  
*Pertusaria multipunctoides* Dibben  
*Pertusaria ophthalmiza* (Nylander) Nylander  
*Pertusaria paratuberculifera* Dibben  
*Pertusaria plittiana* Erichsen  
*Pertusaria propinqua* Müll. Arg. (Dibben, 1980)  
*Pertusaria pustulata* (Acharius) Duby  
*Pertusaria rubefacta* Erichsen  
*\*Pertusaria subpertusa* Brodo  
*Pertusaria trachythallina* Erichsen  
*Pertusaria velata* (Turner) Nylander  
*Pertusaria waghornei* Hulting (Dibben, 1980)  
*Pertusaria xanthodes* Müll. Arg. (Dibben, 1980)  
*Phaeocalicium curtisii* (Tuckerman) Tibell  
*Phaeocalicium polyporaeum* (Nylander) Tibell  
*Phaeographis inusta* (Acharius) Müll. Arg.  
*Phaeophyscia adiastrata* (Esslinger) Esslinger  
*Phaeophyscia cernohorskyi* (Nádvořník) Esslinger  
*Phaeophyscia ciliata* (Hoffmann) Moberg  
*Phaeophyscia endococcinodes* (Poelt) Esslinger  
*Phaeophyscia hirtella* Esslinger  
*Phaeophyscia hispidula* (Acharius) Moberg  
*Phaeophyscia insignis* (Mereschkowsky) Moberg  
*Phaeophyscia pusilloides* (Zahlbruckner) Esslinger  
*Phaeophyscia rubropulchra* (Degelius) Moberg  
*Phaeophyscia sciastra* (Acharius) Moberg  
*Phaeophyscia squarrosa* Kashiwadani  
*Phlyctis argena* (Sprengel) Flotow  
*Phlyctis* sp. (saxicolous)  
*Physcia adscendens* (Fries) H. Olivier

*Physcia aipolia* (Humboldt) Fürnrohr  
*Physcia americana* G. Merrill  
*Physcia caesia* (Hoffmann) Fürnrohr  
*Physcia dubia* (Hoffmann) Lettau  
*Physcia millegrana* Degelius  
*Physcia phaea* (Tuckerman) J. W. Thomson  
*Physcia stellaris* (L.) Nylander  
*Physcia subtilis* Degelius  
*Physciella chloantha* (Acharius) Esslinger  
*Physciella melanchra* (Hue) Esslinger  
*Physconia detersa* (Nylander) Poelt  
*Physconia leucoleiptes* (Tuckerman) Esslinger  
*Pilophorus cereolus* (Acharius) Th. Fries  
*Pilophorus fibula* (Tuckerman) Th. Fries  
*Placidiopsis minor* R. C. Harris  
*Placidium squamulosum* (Acharius) Breuss  
*Placidium tuckermanii* (Montagne) Breuss  
*Placynthiella icmalea* (Acharius) Coppins & P. James  
*Placynthiella oligotropha* (J. R. Laundon) Coppins & P. James  
*Placynthiella uliginosa* (Schrader) Coppins & P. James  
*Placynthium flabellum* (Tuckerman) Zahlbruckner  
*Placynthium nigrum* (Hudson) Gray  
*Placynthium petersii* (Nylander) Burnham  
*Placynthium stenophyllum* (Tuckerman) Fink  
*Platismatia glauca* (L.) Culberson & C. Culberson  
*Platismatia tuckermanii* (Oakes) Culberson & C. Culberson  
*Polysporina lapponica* (Schaerer) Degelius  
*Polysporina simplex* (Davies) Vězda  
*Porpidia albocaerulescens* (Wulfen) Hertel & Knoph  
*Porpidia albocaerulescens* var. *polycarpiza* (Vainio) Hertel  
*Porpidia cinereoatra* (Acharius) Hertel & Knoph  
*Porpidia crustulata* (Acharius) Hertel & Knoph  
*\*Porpidia diversa* (Lowe) Gowan  
*Porpidia herteliana* Gowan  
*Porpidia macrocarpa* (DC.) Hertel & A. J. Schwab  
*Porpidia tahawasiana* Gowan  
*Porpidia tuberculosa* (Sm.) Hertel & Knoph  
*Protoblastenia rupestris* (Scopoli) Steiner  
*Protomicarea limosa* (Acharius) Hafellner  
*Protopannaria pezizoides* (Weber) P. M. Jørgensen & S. Ekman  
*Protoparmelia badia* (Hoffmann) Hafellner  
*Pseudevernia cladonia* (Tuckerman) Hale & Culberson  
*Pseudevernia consocians* (Vainio) Hale & Culberson  
*Psilolechia clavulifera* (Nylander) Coppins  
*Psilolechia lucida* (Acharius) M. Choisy  
*Psora decipiens* (Hedwig) Hoffmann  
*Psora pseudorussellii* Timdal  
*Psorotichia schaeferi* (A. Massalongo) Arnold  
*Psorula rufonigra* (Tuckerman) Gotth. Schneider  
*Punctelia appalachensis* (Culberson) Krog  
*Punctelia bolliana* (Müll. Arg.) Krog  
*Punctelia rudecta* (Acharius) Krog  
*Punctelia subrudecta* auct. Amer.  
*Pycnothelia papillaria* Dufour  
*Pyrenocollema strontianense* (Swinscow) R. C. Harris  
*Pyrenopsis polycocca* (Nylander) Tuckerman (mapped by Brodo et al., 2001)  
*Pyrenula cruenta* (Montagne) Trevisan (Brodo, 1968)  
*Pyrenula laevigata* (Persoon) Arnold (BUF)  
*\*Pyrenula lucifera* R. C. Harris

*Pyrenula macounii* R. C. Harris  
*Pyrenula pseudobufonia* (Rehm) R. C. Harris  
*Pyrenula subelliptica* (Tuckerman) R. C. Harris  
*Pyrrhospora elabens* (Fries) Hafellner  
*Pyrrhospora quernei* (Acharius) Körber  
*Pyrrhospora russula* (Acharius) Hafellner  
*Pyrrhospora varians* (Acharius) R. C. Harris  
*Pyxine sorediata* (Acharius) Montagne  
*Pyxine subcinerea* Stirton  
*Ramalina americana* Hale  
*Ramalina denticulata* Nylander  
*Ramalina intermedia* (Nylander) Nylander  
*Ramalina petrina* Bowler & Rundel  
*Ramalina pollinaria* (Westr.) Acharius  
*Ramalina stenosporea* Müll. Arg. (Brodo, 1968)  
*Ramalina willeyi* Howe (Brodo, 1968)  
*Rhizocarpon badioatrum* (Sprengel) Th. Fries  
*Rhizocarpon cinereovirens* (Müll. Arg.) Vainio  
*Rhizocarpon disporum* (Hepp) Müll. Arg.  
*Rhizocarpon eupetraeum* (Nylander) Arnold  
*Rhizocarpon eupetraeoides* (Nylander) Blomberg & Forssell (FH)  
*Rhizocarpon geographicum* (L.) DC.  
*Rhizocarpon grande* (Flotow) Arnold  
*Rhizocarpon infernulum* (Nylander) Lyngby f. *sylvaticum* Fryday  
*Rhizocarpon lavatum* (Fries) Hazsl.  
*Rhizocarpon lecanorinum* Anders (mapped by Brodo et al., 2001)  
*Rhizocarpon oederi* (Weber) Körber  
*Rhizocarpon rubescens* Th. Fries  
*Rhizocarpon subgeminatum* Eitner  
*Rhizocarpon submodestum* (Vainio) Vainio  
*Rhizocarpon timidii* Ihlen & Fryday  
*Rhizoplaca chrysoleuca* (Sm.) Zopf  
*Rhizoplaca subdiscrepans* (Nylander) R. Santesson  
*Rimelia cetrata* (Acharius) Hale & Fletcher  
*Rimelia reticulata* (Taylor) Hale & Fletcher  
*Rimularia badioatra* (Kempelhuber) Hertel & Rambold  
*\*Rimularia caeca* (Lowe) Rambold & Printzen  
*Rinodina adirondackii* H. Magnusson  
*Rinodina ascociscana* (Tuckerman) Tuckerman  
*Rinodina bischoffii* (Hepp) A. Massalongo  
*Rinodina cana* (Arnold) Arnold  
*Rinodina gennarii* Bagl. (Brodo, 1968 as *R. salina*)  
*Rinodina maculans* Müll. Arg.  
*Rinodina oxydata* (A. Massalongo) A. Massalongo  
*Rinodina populicola* H. Magnusson  
*Rinodina subminuta* H. Magnusson  
*Rinodina tephraeaspis* (Tuckerman) Herre  
*Rinodina willeyi* Sheard & Giralt  
*Ropalospora chlorantha* (Tuckerman) S. Ekman  
*Ropalospora lugubris* (Sommerfelt) Poelt  
*Ropalospora viridis* (Tønsberg) Tønsberg  
*Santessoniella crossophylla* (Tuckerman) P. M. Jørgensen (NYS)  
*Sarcogyne clavus* (DC.) Kempelhuber  
*Sarcogyne privigna* (Acharius) A. Massalongo s. lat.  
*Sarcogyne regularis* Körber  
*Sarcogyne similis* H. Magnusson  
*Sarcopyrenia cylindrospora* (Crouan & Crouan) Aguirre  
*Schaereria cinereorufa* (Schaerer) Th. Fries  
*Schaereria fuscocinerea* (Nylander) Clauzade & Roux

*Sclerophora nivea* (Hoffmann) Tibell  
*Scoliosporum chlorococcum* (Stenhammar) Vězda  
*Scoliosporum umbrinum* (Acharius) Arnold  
*Segestria lectissima* Fries  
*Solorina saccata* (L.) Acharius  
*Sphinctrina anglica* Nylander  
*Sphinctrina turbinata* (Persoon) De Not.  
*Staurothele diffractella* (Nylander) Tuck  
*Staurothele drummondii* (Tuckerman) Tuckerman  
*Staurothele fissa* (Taylor) Zwackh  
*Stenocybe major* Körber  
*Stenocybe pullatula* (Acharius) Stein  
*Stereocaulon condensatum* Hoffmann  
*Stereocaulon dactylophyllum* Flörke  
*Stereocaulon glaucescens* Tuckerman var. *caespitosulum* (Nylander) Lamb  
*Stereocaulon paschale* (L.) Hoffmann  
*Stereocaulon pileatum* Acharius  
*Stereocaulon saxatile* H. Magnusson  
*Stereocaulon subcoralloides* (Nylander) Nylander (FH)  
*Stereocaulon tennesseense* H. Magnusson var. *nigrofastigiatum* Lamb  
*Stereocaulon tomentosum* Fries  
*Sticta beauvoisii* Delise  
*Sticta fuliginosa* (Hoffmann) Acharius  
*Sticta sylvatica* (Hudson) Acharius (BUF)  
*Strigula americana* R. C. Harris (BUF)  
*Strigula jamesii* (Swinscow) R. C. Harris  
*Strigula stigmatella* (Acharius) R. C. Harris  
*Teloschistes chrysophthalmus* (L.) Th. Fries  
*Teloschistes flavicans* (Swartz) Norman (Brodo, 1968)  
*Tephromela atra* (Hudson) Hafellner  
*Thamnia subuliformis* (Ehrhart) Culberson  
*\*Thelenella humilis* R. C. Harris  
*Thelidium decipiens* (Nylander) Kempelhuber (BUF)  
*Thelidium zwackhii* (Hepp) A. Massalongo  
*Thelocarpon intermediellum* Nylander  
*Thrombium epigaeum* (Persoon) Wallroth  
*Thyrea confusa* Henssen  
*Trapelia coarctata* (Sm.) M. Choisy  
*Trapelia corticola* Coppins & P. James  
*Trapelia involuta* (Taylor) Hertel  
*Trapelia obtogens* (Th. Fries) Hertel (Lowe, 1939 as *Lecidea*)  
*Trapelia placodioides* Coppins & P. James  
*Trapeliopsis flexuosa* (Fries) Coppins & P. James  
*Trapeliopsis gelatinosa* (Flörke) Coppins & P. James  
*Trapeliopsis granulosa* (Hoffmann) Lumbsch  
*Trapeliopsis viridescens* (Schrader) Coppins & P. James  
*Tremolecia atrata* (Acharius) Hertel  
*Trichothelium aenea* (Wallroth) R. C. Harris  
*Trichothelium cestrense* (Michener) R. C. Harris  
*Trichothelium chloroticum* (Acharius) R. C. Harris  
*Trypethelium virens* Tuckerman ex Michener  
*Tuckermanella fendleri* (Nylander) Esslinger  
*Tuckermanopsis americana* (Sprengel) Hale  
*Tuckermanopsis ciliaris* (Acharius) Gyelnik  
*Tuckermanopsis orbata* (Nylander) M. J. Lai  
*Tuckermanopsis sepincola* (Ehrhart) Hale  
*Umbilicaria americana* Poelt & Nash  
*Umbilicaria deusta* (L.) Baumgartner  
*Umbilicaria hirsuta* (Westr.) Hoffmann

*Umbilicaria hyperborea* (Acharius) Hoffmann  
*Umbilicaria mammulata* (Acharius) Tuckerman  
*Umbilicaria muhlenbergii* (Acharius) Tuckerman  
*Umbilicaria proboscidea* (L.) Schrader  
*Umbilicaria torrefacta* (Lightfoot) Schrader (Llano, 1950)  
*Umbilicaria virginis* Schaerer (mapped by Brodo et al., 2001)  
*Usnea amblyoclada* (Müll. Arg.) Zahlbruckner  
*Usnea cavernosa* Tuckerman  
*Usnea ceratina* Acharius  
*Usnea dasaea* Stirton  
*Usnea filipendula* Stirton  
*Usnea hesperina* Motyka  
*Usnea hirta* (L.) F. H. Wiggers  
*Usnea lapponica* Vainio s. lat.  
*Usnea longissima* Acharius  
*Usnea mutabilis* Stirton  
*Usnea pensylvanica* Motyka  
*Usnea strigosa* (Acharius) A. Eaton  
*Usnea subfloridana* Stirton  
*Usnea subfusca* Stirton  
*Usnea subscabrosa* Motyka  
*Usnea trichodea* Acharius  
*Verrucaria baldensis* A. Massalongo  
*Verrucaria calciseda* DC.  
*Verrucaria calkinsiana* Servít  
*Verrucaria compacta* (A. Massalongo) Jatta  
*Verrucaria halizoa* Leighton  
*Verrucaria hydrela* Acharius  
*Verrucaria latebrosa* Körber ?  
*Verrucaria margacea* (Wahlenberg) Wahlenb.  
*Verrucaria muralis* Acharius  
*Verrucaria nigrescens* Persoon  
*\*Verrucaria silicicola* J. Hedrick  
*Vezdaea leprosa* (P. James) Vězda  
*Vulpicida pinastri* (Scopoli) J.-E. Mattson & M. J. Lai  
*Vulpicida viridis* (Halsey) J.-E. Mattson & M. J. Lai  
*Xanthoparmelia angustiphylla* (Gyelnik) Hale  
*Xanthoparmelia conspersa* (Acharius) Hale  
*Xanthoparmelia cumberlandia* (Gyelnik) Hale  
*Xanthoparmelia dierythra* (Hale) Hale  
*Xanthoparmelia plittii* (Gyelnik) Hale  
*Xanthoparmelia somloensis* (Gyelnik) Hale  
*Xanthoparmelia subramigera* (Gyelnik) Hale  
*Xanthoparmelia tasmanica* (Hooker f. & Taylor) Hale  
*Xanthoria elegans* (Link) Th. Fries  
*Xanthoria fallax* (Hepp) Arnold  
*Xanthoria fulva* (Hoffmann) Poelt & Petuschnig  
*Xanthoria hasseana* Räsänen  
*Xanthoria parietina* (L.) Th. Fries  
*Xanthoria sorediata* (Vainio) Poelt  
*Xanthoria ulophyllodes* Räsänen

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#### END NOTES

<sup>1</sup> *Myriospora immersa* (Fink ex J. Hedrick) R. C. Harris comb. nov.

*Acarospora immersa* Fink ex Hedrick, Mycologia, 26: 158. 1934. TYPE: "On limestone in open grassy pasture near Oxford, Ohio, collected by Bruce Fink, May 15, 1927." (MICH!, holotype).

*Myriospora immersa* is close to the generitype *M. heppi* Nägeli ex Hepp. The distinctions are discussed in Harris (1977). The asci are very different from those of *Acarospora*.

#### APPENDIX 1

Species described from New York not currently accepted.

*Lecanora fulva* Halsey = ?  
*Lecanora irregularis* Halsey = ?  
*Lecanora juglandina* Halsey = ?  
*Lecidea adirondackii* H. Magnusson = *Psilolechia clavulifera*  
*Lecidea albonigra* H. Magnusson = *L. virginensis*  
*Lecidea caesiocoronata* Lowe = *L. olivascens*  
*Lecidea coccinea* Halsey = *Pyrrhospora russula*?  
*Lecidea granulata* Lowe = *Lecanora placidensis*  
*Lecidea soredifera* Lowe = *Porpidia crustulata*  
*Lecidea suberratica* = *Micarea erratica*  
*Lecidea versicolor* Halsey = ?  
*Lepraria zonata* Brodo = *Lepraria caesioalba*  
*Pyrenula enteroleuca* Halsey = *Conotrema urceolatum*?  
*Spiloma roseum* Halsey = ?



## APPENDIX 2

Macrolichens which seem rare and whose present day occurrence and distribution in New York requires confirmation.

E = probably extinct in New York (offered as a challenge to the enterprising collector to prove me wrong).

*Ahtiana aurescens*  
*Alectoria fallacina*  
*Anaptychia setifera* (E)  
*Anzia colpodes*  
*Bryoria implexa* (E)  
*Bryoria subcana*  
*Caloplaca cirrochroa*  
*Cladonia acuminata* s. lat.  
*Cladonia beaumontii*  
*Cladonia caroliniana* s. str.  
*Cladonia didyma*  
*Cladonia dimorphoclada* (psoromic acid chemotype)  
*Cladonia glauca*  
*Cladonia macrophylla*  
*Cladonia pocillum*  
*Cladonia robbinsii*  
*Cladonia simulata*  
*Cladonia wainioi* (E)  
*Coccocarpia palmicola* (E)  
*Collema rysssoleum* (E)  
*Dirinaria frostii* (E)  
*Evernia prunastri* (E)  
*Fuscopannaria leucosticta*  
*Heterodermia echinata*  
*Heterodermia galactophylla*  
*Heterodermia leucomelos*  
*Heterodermia obscurata*  
*Heterodermia squamulosa* (E)  
*Hydrothyria venosa*  
*Hypogymnia vittata*  
*Hypotrachyna rockii*  
*Leptogium azureum* (E)  
*Leptogium chloromelum* (E)  
*Leptogium laceroides* (E)  
*Leptogium millegranum* (E)  
*Leptogium saturninum* (E)  
*Melanelia culbersonii*  
*Melanelia exasperata* (E)  
*Nephroma bellum*  
*Nephroma parile*  
*Pannaria lurida*  
*Parmelia neodiscordans*  
*Parmotrema arnoldii*  
*Parmotrema chinense*  
*Parmotrema margaritatum*  
*Parmotrema stuppeum*  
*Peltigera lepidophora*  
*Phaeophyscia endococcinodes*  
*Phaeophyscia erythrocardia*  
*Placidium tuckermanii* (E)  
*Protoparmelia pezizoides*  
*Pyxine subcinerea*  
*Ramalina denticulata*  
*Ramalina petrina*  
*Ramalina pollinaria*  
*Ramalina stenospora*

*Ramalina willeyi*  
*Solorina saccata*  
*Stereocaulon condensatum*  
*Stereocaulon dactylophyllum*  
*Stereocaulon paschale*  
*Stereocaulon subcoralloides*  
*Stereocaulon tennesseense*  
*Sticta beauvoisii*  
*Sticta fuliginosa* (E)  
*Sticta sylvatica* (E)  
*Teloschistes chrysophthalmus* (E)  
*Teloschistes flavicans*  
*Umbilicaria americana*  
*Usnea amblyoclada*  
*Usnea dasaea*  
*Usnea longissima*  
*Usnea trichodea* (E)  
*Vulpicida viridis*  
*Xanthoparmelia dierythra*  
*Xanthoparmelia subramigera*  
*Xanthoria fulva*  
*Xanthoria sorediata*

### APPENDIX 3

#### Arctic-Alpine Lichens

*Amygdalaria paneola*  
*Arctoparmelia centrifuga*  
*Arctoparmelia incurva*  
*Arctoparmelia subcentrifuga*  
*Arthrorhaphis citrinella*  
*Cetraria ericetorum* ssp. *reticulata*  
*Cetraria laevigata*  
*Cetraria muricata*  
*Cetrariella delisei*  
*Cladonia amaurocraea*  
*Cladonia maxima*  
*Cladonia metacorallifera*  
*Cladonia sulphurina*  
*Cladonia wainioi*  
*Flavocetraria cucullata*  
*Flavocetraria nivalis*  
*Lecidea diapensiae*  
 'Lecidea' – some species described by Lowe?  
*Lecidoma demissum*  
*Lichenomphalia hudsoniana*  
*Micarea crassipes*  
*Micarea leprosula*  
*Micarea lignaria*  
*Mycoblastus affinis*  
*Nephroma arcticum*  
*Ophioparma ventosa*  
*Orphniospora moriopsis*  
*Pilophorus cereolus*  
*Pilophorus fibula*  
*Porpidia cinereoatra*  
*Porpidia diversa*  
*Porpidia herteliana*  
*Porpidia tuberculosa*  
*Ropalospora lugubris*  
*Thamnolia vermicularis*  
*Umbilicaria hirsuta*  
*Umbilicaria hyperborea*  
*Umbilicaria proboscidea*  
*Umbilicaria torrefacta*

*Umbilicaria virginis*

#### APPENDIX 4

New York lichens probably restricted to Long Island.

*Acarospora smaragdula*  
*Caloplaca camptidia*  
*Cladonia beaumontii*  
*Cladonia boryi*  
*Cladonia didyma*  
*Cladonia evansii*  
*Cladonia santensis*  
*Cladonia simulata*  
*Cladonia terraenovae*  
*Lecanora cupressi*  
*Lecanora louisianae*  
*Lecanora xylophila*  
*Micarea chlorosticta*  
*Pyrenula cruenta*  
*Ramalina denticulata*  
*Ramalina stenospora*  
*Ramalina willeyi*  
*Usnea trichodea*  
*Xanthoria fulva*

