

## Lichens of Eastern North America Exsiccati. Fascicle IV, nos. 151-200

JAMES C. LENDEMER<sup>1</sup>

ABSTRACT. – In conjunction with the preparator's work on the lichen flora of eastern North America he began distribution of this exsiccata (*Lichens of Eastern North America Exsiccati*) from the Academy of Natural Sciences of Philadelphia (PH). This, the fourth fascicle in the series comprises the nos. 151 to 200 and is distributed in 20 sets on exchange to the following herbaria: ASU, B, BG, CANB, CHR, DOV, FH, GZU, H, HMAS, M, MIN, S, TSB, TNS, TU, UPS, herb. Lendemer. *Lepraria caesiella* R.C. Harris *sp. nov.*, is described as new to science. The new combination *Phlyctis ludoviciensis* (Müll. Arg.) Lendemer, is proposed.

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### FASCICLE IV

**151.** *Schismatomma glaucescens* (Nylander *ex* Willey) R.C. Harris  
Duplicate Det. (NY!) – R.C. Harris – December 1, 2003

**UNITED STATES OF AMERICA. NEW JERSEY. CUMBERLAND COUNTY.:** In the crevices between bark plates of the trunk of an oak (*Quercus*), in a depauperate mixed pine (*Pinus*) – oak (*Quercus*) forest, just north of the railroad tracks, ca. 1 mile east of Dividing Creek Station, ca. 5 miles northeast of Newport. - elev. ca. 50 ft. - UTM 18 493140E 4350351N – Lat. 39° 18' 09"N, Long. 75° 04' 47"W – *Assoc. spp.*: *Lepraria spp.*, *Flavoparmelia caperata*, *Punctelia rudecta*, *Lecanora hybocarpa*, *Lecanora subpallens*.

Thallus corticolous, crustose, esorediate, immersed within substrate or thin and indistinct; apothecia with a dense white pruina, UV+ yellow; hypothecium brown; hymenium colorless, IKI-; epihymenium brownish; ascus sheath IKI-, with a IKI+ red/violet tholus and a small blunt axial body protruding all the way through the tholus; spores 8-per ascus, colorless, obtuse-ellipsoid, tapering to one end, often curved and slightly bent, 4-celled, 22-32µm x 6-8µm, irregularly arranged within ascus.

James C. Lendemer *et al.* #1531  
w/ James A. Macklin, & Gerry Moore

November 13, 2003

**152.** *Lecanora subpallens* Zahlbruckner  
Det. J.C. Lendemer – November 22, 2003

**UNITED STATES OF AMERICA. NEW JERSEY. CUMBERLAND COUNTY.:** On the bark of a red maple (*Acer rubrum*), on the margins of a dirt road bordering Bear Swamp East Natural Area, on the edge of a mixed pine (*Pinus* spp.) / oak (*Quercus*) forest, ca. 4 miles northeast of Newport, ca. 2 miles east of Paynters Crossing, < ½ mile east of Dividing Creek Station, Bear Swamp East Natural Area. – elev. 45 ft. - UTM 18 492354E 4350126N – Lat. 39° 18' 09"N, Long. 75° 05' 19"W - *Assoc. spp.*: *Lepraria incana*, *Lecanora hybocarpa*, *Punctelia rudecta*, *Flavoparmelia caperata*.

Thallus corticolous, crustose, thick, blue-white, esorediate, verruculose; apothecia lecanorine, margins white, prominent, becoming deformed and somewhat excluded with age; disks pink, with a heavy white pruina; epihymenium orange/brown, C+ yellow; hymenium colorless, C-; hypothecium and exciple, tan-brown to colorless, C-; spores simple, 8-per ascus, colorless, obtuse-ellipsoid, often tapering somewhat to one end, 10µm x 5-7µm.

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<sup>1</sup>James C. Lendemer: Lichen Herbarium, Department of Botany, The Academy of Natural Sciences of Philadelphia, 1900 Benjamin Franklin Pky., Philadelphia, PA, 19103, USA. – e-mail: lendemer@acnatsci.org

**153. *Stereocaulon glaucescens* Tuckerman**

Det. J.C. Lendemer – December 11, 2003

Duplicate Confirmed (NY!) – Richard C. Harris – January 7, 2004

**UNITED STATES OF AMERICA. CONNECTICUT. LITCHFIELD COUNTY.:** Forming extensive colonies over granite, in a mixed hardwood-conifer forest with extensive granitic balds, Sam Yankee Woodlot, Great Mountain Forest, east of Canaan Mountain Road, Canaan. – elev. ca. 300 ft. – UTM 18 642841E 4645858N - Lat. 41°, 57', 13"N, Long. 73°, 16', 36"W. – *Assoc. spp.:* *Xanthoparmelia somloensis*, *Xanthoparmelia plittii*, *Xanthoparmelia conspersa*, *Cladonia squamosa*, *Cladonia dimorphoclada*, *Cladonia subtenuis*, *Cladonia rangiferina*, *Rhizocarpon rubescens*, *Diploschistes scruposus*, *Diploschistes actinostomus*, *Aspicilia sp.*

James C. Lendemer *et al.* #1635

September 20, 2003

w/ participants of the 2003 A. Leroy Andrews Foray

**154. *Cladonia parasitica* (Hoffmann) Hoffmann**

Det. James C. Lendemer – February 29, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. CUMBERLAND COUNTY.:** On the rotting trunk of a pine (*Pinus*), in a dense forest of pine (*Pinus*) and oak (*Quercus*) with a dense understory of *Rhododendron*, north of Shaws Mill Road, ca. 2 miles west of intersection with NJ Route #555, north of Dividing Creek, Edward Bevin Wildlife Management Area. – elev. ca. 80 ft. - UTM 18 489103E 4352539N – Lat. 39° 19' 20"N, Long. 75° 07' 35"W. – *Assoc. spp.:* *Lepraria sp.*

Thallus corticolous/lignicolous, fruticose; squamules poorly defined, sorediate, breaking down into soredia; podetia short, unbranched, sorediate; apothecia brown.

James C. Lendemer #1906 & James A. Macklin

February 28, 2004

**155. *Lepraria lobificans* Nylander**

Det. J.C. Lendemer – January 16, 2004

Duplicate Confirmed (NY!) – R.C. Harris – March 18, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On part of a ruined stone wall, in a mixed pitch pine (*Pinus rigida*) – oak (*Quercus*) forest with the remains of an abandoned stone structure, along Hampton Road, ca. 2.5 miles northeast of Atsion, Wharton State Forest. – elev. 40 ft. - UTM 18 526272E 4401362N – Lat. 39° 45' 42"N, Long. 74° 41' 36"W – *Assoc. spp.:* *Cladonia spp.*, *Sarcogyne sp.*, *Verrucaria sp.*

Thallus saxicolous, crustose, blue-green, sorediate, UV-, little lobed.

James C. Lendemer #1801 & Suzanne Joneson

January 15, 2004

**156. *Lecanora hybocarpa* (Tuckerman) Brodo**

Det. J.C. Lendemer – March 1, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. CUMBERLAND COUNTY.:** On the bark of an oak (*Quercus*), in an oak dominated pine (*Pinus*) – oak (*Quercus*) forest with sparse maple (*Acer*), and gum (*Nyssa*), parts of which were recently burned and parts of which are experiencing regeneration failure, north of railroad tracks crossing NJ Route #555, west of Dividing Creek Station, Edward Bevin Wildlife Management Area. – elev. ca. 30 ft. - UTM 18 493354E 4350433N – Lat. 39° 18' 12"N, Long. 75° 04' 38"W – *Assoc. spp.:* *Lepraria sp.*, *Phaeophyscia rubropulchra*, *Physcia americana*, *Punctelia subrudecta*, *Flavoparmelia caperata*, *Lecanora subpallens*.

Thallus corticolous, crustose, thin to thick, verruculose, white, UV-, esorediate; apothecia lecanorine; disks orange-brown to reddish; margins white; epihymenium orange/brown, KOH+ yellow, with small crystals; hymenium colorless; exciple with large crystals; hypothecium colorless; paraphyses slender, not apically swollen; ascospores colorless, obtuse-ellipsoid, simple, 8-per ascus, (8-)10-12µm x 6µm.

157. *Peltigera praetextata* (Flörke ex Sommerfelt) Zopf  
Det. J.C. Lendemer – March 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. BUCKS COUNTY.:** On mossy rocks partially submerged in water, in a mixed hardwood forest of *Acer*, *Quercus*, *Nyssa*, and *Fraxinus* with abundant diabase boulders, along a small tributary to Tohickon Creek, east of Tohickon Creek, north of parking area at terminus of Camp Trail Road, north of PA Route #563, ca. 4 miles southeast of Quakertown, Nockamixon State Park. – elev. 500-550 ft. - UTM 18 477464E 4476805N – Lat. 40° 26' 30"N, Long. 75° 15' 57"W. – *Assoc. spp.*: *Dermatocarpon sp.*, *Collema sp.*

Thallus saxicolous/muscicolous, foliose, loosely attached to substrate, esorediate, lobulate, gray-brown; upper surface dull, weakly tomentose towards lobe tips; underside pale-white, with short to long white rhizines, slightly raised pale (brown) veins present; margins with abundant lobules.

James C. Lendemer #1983 & Richard F. Lendemer

March 14, 2004

158. *Xanthoparmelia conspersa* (Ehrhart ex Acharius) Hale  
Det. J.C. Lendemer – March 31, 2004  
Duplicate Confirmed (NY!) – R.C. Harris – June 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.:** On a large semi-shaded boulder, in the upland (dry) portions of a swampy northern hardwood forest (*Acer*, *Betula*, *Fraxinus*), on the margins of Palen Swamp and raising upland towards the lower slopes of Kistler Ledge, including a large clearing with abandoned building materials, shaded boulders, and sparse gentle rock exposures, north of PA Route #423, Tobyhanna State Park. – elev. ca. 2100 ft. - UTM 18 468549E 4564066N – Lat. 41° 13' 39"N, Long. 75° 22' 31"W – *Assoc. spp.*: *Rhizocarpon spp.*, *Flavoparmelia baltimorensis*, *Punctelia rudenta*, *Acarospora fuscata*, *Aspicilia spp.*

Thallus saxicolous, foliose, green, esorediate, isidiate, closely attached to substrate; underside black; medulla white, KOH+ deep yellow.

James C. Lendemer #1993 & James A. Macklin

March 28, 2004

159. *Cladonia petrophila* R.C. Harris  
Det. J.C. Lendemer – March 31, 2004  
Duplicate Confirmed (NY!) – R.C. Harris – June 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. LUZERNE COUNTY.:** On a large shaded boulder, in a moist mixed northern hardwood forest (*Acer*, *Betula*, *Fraxinus*, etc.) with sparse hemlock, on a south facing slope with abundant rock outcrops, along the north shore of an unnamed lake southeast of Lake Frances, just south of Lake Frances Day Use Area, south of intersection of Honey Hole Road and Lake Frances Road, “Reilly” on topographic map, Nescopeck State Park. – elev. ca. 1200 ft. - UTM 18 426553E 4549056N – Lat. 41° 05' 22"N, Long. 75° 52' 28"W – *Assoc. spp.*: *Leptogium sp.*, *Peltigera lepidophora*, *Lepraria lobificans*, *Lepraria sp.*, *Agonimia sp.*, *Phaeophyscia adiantola*, *Acarospora fuscata*, *Aspicilia sp.*

Thallus saxicolous, squamulose, esorediate; squamules lobed, divided, underside white-tan, UV+ blue-white.

James C. Lendemer #2000 & James A. Macklin

March 27, 2004

160. *Phlyctis* sp.  
Det. J.C. Lendemer – March 31, 2004  
Duplicate Confirmed (NY!) – R.C. Harris – June 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. LUZERNE COUNTY.:** On a large shaded boulder, in a moist mixed northern hardwood forest (*Acer*, *Betula*, *Fraxinus*, etc.) with sparse hemlock, on a south facing slope with abundant rock outcrops, along the north shore of an unnamed lake southeast of Lake Frances, just south of Lake Frances Day Use Area, south of intersection of Honey Hole Road and Lake Frances Road, “Reilly” on topographic map, Nescopeck State Park. – elev. ca. 1200 ft. - UTM 18 426553E

4549056N – Lat. 41° 05' 22"N, Long. 75° 52' 28"W – *Assoc. spp.*: *Leptogium sp.*, *Peltigera lepidophora*, *Lepraria lobificans*, *Lepraria sp.*, *Agonimia sp.*, *Phaeophyscia adiaetola*, *Acarospora fuscata*, *Aspicilia sp.*

Thallus saxicolous, crustose, blue-white, sorediate, UV-, KOH+ red (strong); soredia formed from a breakdown of small portions of the thallus, appearing to create diffuse (poorly defined), excavate soralia.

James C. Lendemer #2007 & James A. Macklin

March 27, 2004

**161.** *Allocetraria oakesiana* (Tuckerman) Randlane & Thell  
Det. J.C. Lendemer – April 1, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. LUZERNE COUNTY.:** On dead shrubs, in a moist mixed northern hardwood forest (*Acer*, *Betula*, *Fraxinus*, etc.) with sparse hemlock, on a south facing slope with abundant rock outcrops, along the north shore of an unnamed lake southeast of Lake Frances, just south of Lake Frances Day Use Area, south of intersection of Honey Hole Road and Lake Frances Road, “Reilly” on topographic map, Nescopeck State Park. – elev. ca. 1200 ft. - UTM 18 426553E 4549056N – Lat. 41° 05' 22"N, Long. 75° 52' 28"W – *Assoc. spp.*: *Flavoparmelia caperata*, *Lepraria lobificans*, *Cladonia spp.*

Thallus corticolous, foliose, green, sorediate; soralia on lobe margins; lobes convex; underside pale/tan.

James C. Lendemer #2024 & James A. Macklin

March 27, 2004

**162.** *Biatora printzenii* Tønsberg  
Det. J.C. Lendemer – April 1, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. LUZERNE COUNTY.:** On the bark of a red maple (*Acer rubrum*), in a wet (many small streams and seeps) conifer (hemlock) dominated northern hardwood forest (*Acer*, *Betula*, *Fraxinus*, etc.) with abundant shaded sandstone ledges and exposed rock outcrops, on the lower north facing slopes of Mount Yeager, south of Honey Hole Road, Nescopeck State Park. – elev. ca. 1100 ft. - UTM 18 423855E 4547249N – Lat. 41° 04' 22"N, Long. 75° 54' 23"W – *Assoc. spp.*: *Lepraria lobificans*, *Punctelia rudecta*, *Flavoparmelia caperata*.

Thallus corticolous, crustose, thin, smooth blue-gray to greenish, sorediate, UV-, C+ pinkish, PD+ orange; soralia well defined and overflowing, with age soredia forming a nearly continuous crust; soredia green.

James C. Lendemer #2042 & James A. Macklin

March 27, 2004

**163.** *Xanthoparmelia conspersa* (Ehrhart ex Acharius) Hale  
Det. J.C. Lendemer – April 2, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. LUZERNE COUNTY.:** On rock, in abandoned open pastureland with abundant disturbance based vegetation (*Rubus*, *Rosa*) with gentle sloping rock exposures and the remnants of stone walls bordering the fields, Lower Day-Use Area, on gentle southeast facing slopes above Nescopeck Creek, south of Honey Hole Road, Nescopeck State Park. – elev. ca. 1200 ft. - UTM 18 422514E 4546548N – Lat. 41° 03' 59"N, Long. 75° 55' 20"W – *Assoc. spp.*: *Aspicilia sp.*, *Xanthoparmelia cumberlandia*, *Peltigera sp.*, *Caloplaca flavovirescens*, *Trapelia sp.*, *Acarospora fuscata*, *Lecanora sp.*, *Xanthoparmelia plittii*.

Thallus saxicolous, foliose, green, esorediate, isidiate, closely attached to substrate; underside black; medulla white, KOH+ deep yellow.

James C. Lendemer #2046 & James A. Macklin

March 27, 2004

**164.** *Abrothallus caeruleus* Kotte  
Duplicate Determined (LUX!) - P. Diederich – June 19, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. LUZERNE COUNTY.:** On *Xanthoparmelia*, on rock, in abandoned open pastureland with abundant disturbance based vegetation (*Rubus*, *Rosa*) with gentle sloping rock exposures and the remnants of stone walls bordering the fields, Lower Day-Use Area, on gentle southeast facing slopes above Nescopeck Creek, south of Honey Hole Road, Nescopeck State Park. – elev. ca. 1200 ft. - UTM 18 422514E 4546548N – Lat. 41° 03' 59"N, Long. 75° 55' 20"W – *Assoc.*

spp.: *Aspicilia* sp., *Xanthoparmelia cumberlandia*, *Peltigera* sp., *Caloplaca flavovirescens*, *Trapelia* sp., *Acarospora fuscata*, *Lecanora* sp., *Xanthoparmelia plittii*, *Xanthoparmelia conspersa*.

Thallus lichenicolous on *Xanthoparmelia* spp., forming large black ascomata; ascospores 2-celled, brown, lower cell often smaller, 15-16µm x 6-8µm; epihymenium brown, KOH+ brown/yellow; hymenium greenish in upper portions and colorless below; hypothecium brown, KOH+ brown/yellow.

James C. Lendemer #2067 & James A. Macklin

March 27, 2004

**165.** *Rhizocarpon reductum* Th. Fries

Det. J.C. Lendemer – April 3, 2004

Duplicate Confirmed (NY!) – R.C. Harris – June 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.:** On a large semi-shaded boulder, in the upland (dry) portions of a swampy northern hardwood forest (*Acer*, *Betula*, *Fraxinus*), on the margins of Palen Swamp and raising upland towards the lower slopes of Kistler Ledge, including a large clearing with abandoned building materials, shaded boulders, and sparse gentle rock exposures, north of PA Route #423, Tobyhanna State Park. – elev. ca. 2100 ft. - UTM 18 468549E 4564066N – Lat. 41° 13' 39"N, Long. 75° 22' 31"W – *Assoc. spp.:* *Rhizocarpon* sp., *Xanthoparmelia plittii*, *Xanthoparmelia conspersa*, *Flavoparmelia baltimorensis*, *Punctelia rudecta*, *Acarospora fuscata*, *Aspicilia* spp.

Thallus saxicolous, crustose, thick to thin, brown, esorediate, UV-, KOH-; apothecia black; epihymenium brown, KOH-; hymenium colorless; hypothecium brown, KOH-; exciple black/brown, KOH-; ascospores colorless, muriform, 8-per ascus, 22-24µm x 12-14µm. This collection apparently lacks stictic acid.

James C. Lendemer #2071 & James A. Macklin

March 28, 2004

**166.** *Caloplaca flavovirescens* (Wulfen) Dalla Torre & Sarnthein

Det. J.C. Lendemer – April 5, 2004

Duplicate Confirmed (NY!) – R.C. Harris – June 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.:** On concrete, in the upland (dry) portions of a swampy northern hardwood forest (*Acer*, *Betula*, *Fraxinus*), on the margins of Palen Swamp and raising upland towards the lower slopes of Kistler Ledge, including a large clearing with abandoned building materials, shaded boulders, and sparse gentle rock exposures, north of PA Route #423, Tobyhanna State Park. – elev. ca. 2100 ft. - UTM 18 468549E 4564066N – Lat. 41° 13' 39"N, Long. 75° 22' 31"W – *Assoc. spp.:* *Caloplaca* sp.

Thallus saxicolous, crustose, thin to thick, yellow, esorediate; apothecia orange, disks slightly darker than margins; epihymenium brown, C-; hymenium colorless; hypothecium colorless; exciple colorless; ascospores colorless, ca. 8-per ascus, with ca. 4µm isthmus, obtuse-ellipsoid, 14-16µm x (6)-7-8µm.

James C. Lendemer #2097 & James A. Macklin

March 28, 2004

**167.** *Xanthoparmelia somloënsis* (Gyelnik) Hale

Det. J.C. Lendemer – April 12, 2004

**UNITED STATES OF AMERICA. MARYLAND. CECIL COUNTY.:** On a granite gravestone, in the older portions of West Noddingham Presbyterian Cemetery, West Nottingham Presbyterian Church, West Noddingham. – elev. ca. 340 ft. - UTM 18 407687E 4391813N – Lat. 39° 40' 16"N, Long. 76° 04' 35"W – *Assoc. spp.:* *Caloplaca* sp., *Verrucaria* sp., *Aspicilia* sp.

Thallus saxicolous, foliose, esorediate, lacking isidia and lobules, loosely attached to substrate; lobes narrow to broad, overlapping, often somewhat convex; underside pale tan/brown; medulla white, KOH+ yellow turning red (quickly); apothecia abundant.

James C. Lendemer *et al.* #2102  
w/ Ethel W. McCardell & Vivian S. McCardell

April 11, 2004

**168.** *Myelochroa aurulenta* (Tuckerman) Elix & Hale

Det. J.C. Lendemer – April 12, 2004

Duplicate Confirmed (NY!) – R.C. Harris – June 15, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. BUCKS COUNTY.:** On a diabase boulder, in a moist rocky stream valley with abundant mossy diabase boulders and a northern hardwood forest of *Acer*, *Fraxinus*, *Liriodendron*, etc., along a small tributary to the Tohickon Creek, south of PA Route #563, east of Kellers Church, Nockamixon State Park. – elev. ca. 500 ft. - UTM 18 479252E 4478527N – Lat. 40° 27' 26"N, Long. 75° 14' 41"W – *Assoc. spp.:* *Phaeophyscia adiastrata*, *Porpidia albocaerulescens*, *Lepraria sp.*, *Punctelia rudecta*, *Rinodina vezdae*, *Agonimia sp.*

Thallus saxicolous, foliose, loosely attached to substrate, esorediate, pustulose, gray-blue; medulla yellow; pustules abundant, laminal; underside black.

James C. Lendemer #2113 & Ann F. Rhoads

March 30, 2004

**169.** *Phaeophyscia adiastrata* (Esslinger) Esslinger  
Det. J.C. Lendemer – April 12, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. BUCKS COUNTY.:** On a diabase boulder, in a moist rocky stream valley with abundant mossy diabase boulders and a northern hardwood forest of *Acer*, *Fraxinus*, *Liriodendron*, etc., along a small tributary to the Tohickon Creek, south of PA Route #563, east of Kellers Church, Nockamixon State Park. – elev. ca. 500 ft. - UTM 18 479252E 4478527N – Lat. 40° 27' 26"N, Long. 75° 14' 41"W – *Assoc. spp.:* *Myelochroa aurulenta*, *Porpidia albocaerulescens*, *Lepraria sp.*, *Punctelia rudecta*, *Rinodina vezdae*, *Agonimia sp.*

Thallus muscicolous/saxicolous, foliose, sorediate, brown-gray; medulla white; underside black; rhizines abundant, short, black with white tips; soralia marginal, with coarse soredia.

James C. Lendemer #2114 & Ann F. Rhoads

March 30, 2004

**170.** *Nadvornikia sorediata* R.C. Harris  
Det. J.C. Lendemer – May 18, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. SULLIVAN COUNTY.:** On the bark of a tree, in a mixed northern hardwood forest with gradation from primarily *Acer*, *Fraxinus*, *Betula* to hemlock (*Tsuga*), with shaded boulders, on a north facing slope, area around amphitheater, east of Mineral Spring Road along Loyalsock Creek, Worlds End State Park. – elev. ca. 1200 ft. - UTM 18 369024E 4592115N – Lat. 41° 28' 12"N, Long. 76° 34' 07"W – *Assoc. spp.:* *Flavoparmelia caperata*, *Lepraria lobificans*.

Thallus corticolous, crustose, white, UV-; soralia punctiform; soredia coarse; photobiont *Trentepohlia*.

James C. Lendemer #2243 & James A. Macklin

April 18, 2004

**171.** *Cladonia macilenta* Hoffmann  
Det. J.C. Lendemer – May 20, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA LUZERNE COUNTY.:** On soil and organic debris, in a highly disturbed northern hardwood forest of primarily *Prunus*, *Acer*, and *Fraxinus*, badly damaged by a windstorm (recently?), with open rocky areas and humus exposures in full sun, along the left (west) side of PA Route #487, southwest of Lake Rose Visitor Center, north of Red Rock, just south/east of Sullivan County line, Ricketts Glenn State Park. – elev. ca. 2200 ft. - UTM 18 390958E 4575332N - Lat. 41° 19' 20"N, Long. 76° 18' 10"W – *Assoc. spp.:* *Trapeliopsis flexuosa*, *Trapeliopsis granulosa*, *Cladonia cristatella*.

Thallus terricolous, fruticose, sorediate, UV-, white-gray; primary squamules small, diffuse and sorediate; podetia thick to thin, tapering, sorediate; apothecia/pycnidia red.

James C. Lendemer #2300 & James A. Macklin

April 17, 2003

**172.** *Lepraria caesiella* R.C. Harris *sp. nov.*<sup>1</sup>  
Det. J.C. Lendemer & R.C. Harris – May 21, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.:** On a large dead birch (*Betula*), Community Drive Wetlands, drained portions boarded by *Alnus*, and swampy portions primarily with *Acer* and *Fraxinus*, bisected by Hogback Ridge forested with dense hemlocks (*Tsuga*) and large

semi-calcareous rock exposures and boulders, ca. 1 mile southeast of Shoemakers, ca. 2 miles south of Bushkill, Delaware Water Gap National Recreation Area. – elev. ca. 700-800 ft. - UTM 18 499427E 4547474N – Lat. 41° 04' 43"N, Long. 75° 00' 24"W.

Thallus corticolous, crustose, sorediate, blue, UV-, sterile, continuous to diffuse; margins poorly developed, not distinctly lobed.

James C. Lendemer #2304 & R.C. Harris *et al.*  
w/ participants of the 1<sup>st</sup> H. Crum Workshop

April 24, 2003

**173. *Lepraria lobificans*** Nylander

Det. J.C. Lendemer – June 9, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. BUCKS COUNTY.:** On the bark of a tulip tree (*Liriodendron*), in a rocky northern hardwood forest with *Acer*, *Fraxinus*, *Liriodendron*, etc., with abundant diabase boulders, along a small tributary to the Tohickon Creek with abundant mosses and hepatics as well as *Dermatocarpon*, north of PA Route #563, north of Kellers Church, Nockamixon State Park. – elev. ca. 550 ft. - UTM 18 480701E 4480793N – Lat. 40° 28' 39"N, Long. 75° 13' 40"W – *Assoc. spp.:* *Lepraria sp.*, *Cladonia sp.*, *Flavoparmelia caperata*, *Physcia millegrana*.

Thallus corticolous, crustose, blue-gray, sorediate, thick, UV-; margins poorly lobed. TLC: atranorin, zeorin, stictic acid, constictic acid.

James C. Lendemer #2398 & Ann F. Rhoads

March 30, 2004

**174. *Physconia leucoleiptes*** (Tuckerman) Esslinger

Det. J.C. Lendemer – July 16, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. ATLANTIC COUNTY.:** On the west facing sides of old gravestones, Pleasant Mills Cemetery, west of Batsto, Batsto Natural Area, Wharton State Forest. – elev. ca. 10 ft. - UTM 18 529086E 4388055N – Lat. 39° 38' 30"N, Long. 74° 39' 40"W – *Assoc. spp.:* *Physcia sp.*, *Caloplaca sp.*, *Xanthomendoza fulva*, *Verrucaria sp.*

Thallus saxicolous, foliose, loosely attached to substrate, sorediate; underside black, white towards lobe tips; medulla white, C-; soralia marginal, C-; thallus densely pruinose throughout.

James C. Lendemer *et al.* #2657

June 25, 2004

w/ Carrie Kiel, James A. Macklin, Alfred E. Schuyler, Sasha Eisenman, and Bill Roberts

**175. *Rinodina*** sp.

Det. J.C. Lendemer - July 16, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.:** On the branches of a small maple (*Acer*), in a lowland forest of maple (*Acer*) and birch (*Betula*) on a southeast facing slope, along Freeman Tract Road (River Road North) between intersection with Community Drive and terminus on west shore of Delaware River, ca. 2 miles southeast of Shoemakers, south of Bushkill, Delaware Water Gap National Recreation Area. – elev. ca. 500 ft. - UTM 18 499336E 4546600N – Lat. 41° 04' 15"N, Long. 75° 00' 28"W. – *Assoc. spp.:* *Flavoparmelia caperata*, *Punctelia rudecta*, *Phaeophyscia pussiloides*, *sterile sorediate sp.*, *Rinodina sp.*

Thallus corticolous, crustose, esorediate, gray-green, thin, smooth; apothecia small; discs purple-brown; margins pale; epihymenium brown, KOH-; hymenium colorless; hypothecium colorless/tan; exciple colorless; ascospores brown, obtuse-ellipsoid, ca. 8-per ascus, *Physconia*-type?, 13-16µm x 7.5-8.5µm.

James C. Lendemer #2674 & Richard C. Harris *et al.*  
w/ participants of 1<sup>st</sup> H. Crum Workshop

April 25, 2004

**176. *Trapeliopsis viridescens*** (Schrader) Coppins & P. James

Det. J.C. Lendemer – July 18, 2004

**UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.:** On a rotting tree base, Community Drive Wetlands, drained portions boarded by *Alnus*, and swampy portions primarily with *Acer* and *Fraxinus*, bisected by Hogback Ridge forested with dense hemlocks (*Tsuga*) and large semi-

calcareous rock exposures and boulders, ca. 1 mile southeast of Shoemakers, ca. 2 miles south of Bushkill, Delaware Watergap National Recreation Area. – elev. ca. 700-800 ft. - UTM 18 499427E 4547474N – Lat. 41° 04' 43"N, Long. 75° 00' 24"W. – *Assoc. spp.*: *Myxobilimbia sabuletorum*, *Strigula stigmatella*, *Lepraria lobificans*, *Leptogium dactylinum*, *Cladonia fimbriata*, *Peltigera evansiana*, *Cladonia furcata*, *Cladonia incrassata*.

Thallus lignicolous, crustose, sorediate, green, granular, thick; soralia diffuse, lighter in color than thallus, C+ pink; apothecia black, lecideine, eventually strongly convex with deformed margins; epihymenium brown/green; hymenium colorless; hypothecium brown; exciple brown; (epi-)/hymenial green/brown gel in apothecia C+ yellow/orange; ascospores ellipsoid, colorless, with oil droplets, simple, ca. 8-per ascus, 12-15µm x 5µm.

James C. Lendemer #2675 & Richard C. Harris *et al.*  
w/ participants of 1<sup>st</sup> H. Crum Workshop

April 24, 2004

**177. *Cetraria arenaria* Kärnefelt**

Det. J.C. Lendemer – September 8, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On sandy soil, in an extensive swamp/swale system dominated by maple (*Acer*) and gray birch (*Betula populifolia*) and bordered by huckleberry (*Gaylussacia*), with sandy ridges grading into mixed pine (*Pinus*) – oak (*Quercus*) forest, part of the Oswego/Papoose Rivers drainage system, west of abandoned hunting lodge, ca. 1.2 miles southwest of Sim Place, north of Warren Grove Road, Warren Grove Target Area. – elev. 50-70 ft. – UTM 18 547637E 4397825N - Lat. 39° 43' 44" N, Long. 74° 26' 38" W. – *Assoc. spp.*: *Cladonia arbuscula*, *Cladonia atlantica*, *Cladonia grayi*.

Thallus terricolous, fruticose, brown, esorediate, forming small cushions; branches flattened, margins with abundant cilia.

James C. Lendemer *et al.* #2902  
w/ Walter Bien, Ted Gordon, Bill Olson, Alfred E. Schuyler, & Bill Standaert

August 5, 2004

**178. *Micarea erratica* (Körber) Hertel et al.**

Det. J.C. Lendemer – September 11, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On small pebbles, in low, open, disturbed sandy barrens with small oaks (*Quercus*) and pines (*Pinus*), south of Airfield landing strip, Warren Grove Target Area, southwest of Warren Grove. – elev. 130 ft. – UTM 18 551305E 4394062N – Lat. 39° 41' 41" N, Long. 74° 24' 06" W. – *Assoc. spp.*: *Cladonia submitis*, *Cladonia cristatella*, *Cladonia grayi*, *Cladonia rappii*, *Cladonia polycarpoides*, *Placynthiella uliginosa*, *Lecidea crytidia*.

Thallus saxicolous, crustose, areolate, white, esorediate; apothecia black; margins persistent, flexuous; epihymenium brown/blue-green, KOH-; hymenium colorless; hypothecium brown; exciple blue-green, KOH-; ascospores colorless, ellipsoid, ca. 8-per ascus, simple, 10µm x 3-4µm.

James C. Lendemer *et al.* #2920  
w/ Walter Bien, Ted Gordon, Bill Olson, Alfred E. Schuyler, & Bill Standaert

August 5, 2004

**179. *Cetrelia olivetorum* (Nylander) Culberson & C. Culberson**

Det. J.C. Lendemer – September 30, 2004

**UNITED STATES OF AMERICA. NEW YORK. ESSEX COUNTY.:** On twigs of a dead conifer, in a hardwood swamp with maple (*Acer*), elm (*Ulmus*), and sparse conifers, bordered by rocky outcrops, along Ausable River, west side of NY Route #21. – elev. 500 ft. – UTM 18 0585097E 4904975N - Lat. 44° 17' 35" N, Long. 73° 56' 00" W – *Assoc. spp.*: *Hypogymnia physodes*, *Parmelia squarrosa*, *Flavoparmelia caperata*, *Usnea merrillii*, *Usnea filipendula*.

Thallus corticolous, foliose, blue-gray, sorediate; medulla white, C+ red; underside black with brown margins; soralia marginal, small; pseudocyphellae small, inconspicuous.

James C. Lendemer *et al.* #3053

September 18, 2004



w/ participants of 2004 A. Leroy Andrews Foray

- 180.** *Rimelia reticulata* (Taylor) Hale & Fletcher  
Det. J.C. Lendemer – October 12, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On the bark of an oak (*Quercus*), in a mixed pine (*Pinus*) – oak (*Quercus*) forest, along the east shore of the Batsto River, Batsto Natural Area, 0-1 mile north of Batsto, Wharton State Forest. – elev. 40-50 ft. - UTM 18 52994E 4389672N – Lat. 39° 39' 23"N, Long. 74° 39' 01"W – *Assoc. spp.:* *Flavoparmelia caperata*, *Lepraria sp.*, *sterile sorediate crustose sp.*, *Rimelia subsidiosa*, *Punctelia rudecta*, *Lecanora subpallens*, *Lecanora hybocarpa*, *Physcia millegrana*, *Rinodina maculans*.

Thallus corticolous, foliose, blue-gray, sorediate; cortex with a fine pattern of reticulate cracks; medulla white, KOH+ yellow turning red; underside black with brown margins; soralia marginal; soredia fine.

James C. Lendemer #3203

October 9, 2004

- 181.** *Coenogonium pineti* (Acharius) ined.  
Det. J.C. Lendemer – October 18, 2004

**UNITED STATES OF AMERICA. NEW YORK. ESSEX COUNTY.:** On bryophytes and organic matter on a road bank, in a mixed northern hardwood forest (*Acer*, *Fraxinus*, *Juglans*, *Betula*) with low coniferous areas and shaded rock outcrops, northeast of Heart Lake, low east-facing slopes of Mt. Jo. – elev. 650-700 ft. – UTM 18 582927E 4893307N – Lat. 44° 11' 18" N, Long. 73° 57' 45" W – *Assoc. spp.:* *Cladonia fimbriata*, *Cladonia sp.*

Thallus muscicolous/lignicolous, crustose, thick, green-gray, esorediate; apothecia pale, margins smooth; epihymenium colorless; hymenium colorless; hypothecium colorless; exciple colorless; ascospores 2-celled, colorless, 8-per ascus, obtuse-ellipsoid, 10-10.25µm x 4µm.

James C. Lendemer *et al.* #3062  
w/ participants of 2004 A. Leroy Andrews Foray

September 17, 2004

- 182.** *Lecanora sp.*  
Duplicate Det. (NY!) – R.C. Harris – December 24, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On the bark of a pitch pine (*Pinus rigida*), in a low, moist, mixed pine (*Pinus rigida*) – oak (*Quercus*) forest with many small depressions, grading into typical dry pine – oak barrens, just west of the shore of the Batsto River and east of the Mullica River, south of Batsto, Wharton State Forest. - elev. 0-10 ft. - UTM 18 529932E 4387968N – Lat. 39° 38' 28"N, Long. 74° 39' 04"W – *Assoc. spp.:* *Lecanora strobilina*, *sterile sorediate crustose sp.*, *Cladonia sp.*, *Pyrrhospora varians*.

Thallus corticolous, crustose, esorediate, areolate, white, UV-; areoles aggregated to dispersed, small; apothecial discs brown; margins white and often excluded; epihymenium brown/orange; hymenium colorless; hypothecium colorless; exciple colorless; ascospores colorless, simple, ellipsoid, ca. 8-per ascus, (8-9)-10µm x 4µm.

James C. Lendemer #3259

October 17, 2004

- 183.** *Pertusaria ophthalmiza* (Nylander) Nylander  
Det. J.C. Lendemer – October 27, 2004  
Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. ALTANTIC COUNTY.:** On the bark of an oak (*Quercus*), Pleasant Mills Cemetery, west of Batsto, Batsto Natural Area, Wharton State Forest. – elev. ca. 10 ft. - UTM 18 529086E 4388055N – Lat. 39° 38' 30"N, Long. 74° 39' 40"W – *Assoc. spp.:* *Anisomeridium polypori*, *Julella fallaciosa*, *Flavoparmelia caperata*, *Punctelia rudecta*, *Pertusaria paratuberculifera*, *Lepraria lobificans*.

Thallus corticolous, crustose, thick, gray, esorediate, UV-; apothecia densely pruinose/sorediate; discs black/dark; asci immature; medulla & ascomata K-, C-, UV-, PD-.

James C. Lendemer #3316

October 17, 2004

**184.** *Lepraria* aff. *incana* (L.) Acharius

Det. J.C. Lendemer – October 27, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. ATLANTIC COUNTY.:** On the bark of an oak (*Quercus*), in a mixed pine (*Pinus rigida*) – oak (*Quercus*) forest with sparse birch (*Betula populifolia*) and maple (*Acer*), north of Pleasant Mills Cemetery, northwest of Batsto, east of Nesco, Wharton State Forest. – elev. 10-20 ft. - UTM 18 528796E 4388529N - Lat. 39° 38' 46"N, Long. 74° 39' 52" W – *Assoc. spp.:* *Cladonia* sp., *Flavoparmelia caperata*, *Punctelia rudecta*.

Thallus corticolous, crustose, blue-gray to greenish, poorly lobed, thick, UV + blue/white.

James C. Lendemer #3357

October 24, 2004

**185.** *Lepraria* aff. *incana* (L.) Acharius

Det. J.C. Lendemer – October 27, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. ATLANTIC COUNTY.:** On the bark of an oak (*Quercus*), in a mixed pine (*Pinus rigida*) – oak (*Quercus*) forest with sparse birch (*Betula populifolia*) and maple (*Acer*), north of Pleasant Mills Cemetery, northwest of Batsto, east of Nesco, Wharton State Forest. – elev. 10-20 ft. - UTM 18 528796E 4388529N - Lat. 39° 38' 46"N, Long. 74° 39' 52" W – *Assoc. spp.:* *Cladonia* sp., *Flavoparmelia caperata*, *Punctelia rudecta*.

Thallus corticolous, crustose, blue-gray to greenish, poorly lobed, thick, UV + blue/white.

James C. Lendemer #3358

October 24, 2004

**186.** *Physcia americana* G. Merrill

Det. J.C. Lendemer – October 27, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On the bark of an oak (*Quercus*), in an upland disturbed pine (*Pinus rigida*) – oak (*Quercus*) forest (oak dominant), on a flat upland area between the Mullica River and the Batsto River, just south of Batsto, Wharton State Forest. – elev. 10 ft. - UTM 18 529760E 4387974N – Lat. 39° 38' 28"N, Long. 74° 39' 12"W – *Assoc. spp.:* *Flavoparmelia caperata*, *Punctelia rudecta*, *Bacidia schweinitzii*, *Lepraria lobificans*, *Pertusaria paratuberculifera*, *Acrocordia megalospora*, *Phaeophyscia rubropulchra*.

Thallus corticolous, foliose, gray-blue, sorediate, UV-, lightly pruinose; soralia laminal; underside pale; medulla white.

James C. Lendemer #3367

October 24, 2004

**187.** *Acrocordia megalospora* (Fink) R.C. Harris

Det. J.C. Lendemer – October 27, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On the bark of an oak (*Quercus*), in an upland disturbed pine (*Pinus rigida*) – oak (*Quercus*) forest (oak dominant), on a flat upland area between the Mullica River and the Batsto River, just south of Batsto, Wharton State Forest. – elev. 10 ft. - UTM 18 529760E 4387974N – Lat. 39° 38' 28"N, Long. 74° 39' 12"W – *Assoc. spp.:* *Flavoparmelia caperata*, *Punctelia rudecta*, *Bacidia schweinitzii*, *Lepraria lobificans*, *Pertusaria paratuberculifera*, *Physcia americana*, *Phaeophyscia rubropulchra*.

Thallus corticolous, crustose, immersed, UV-; perithecia large, ca. ½ to ¾ immersed in substrate, black, with a somewhat raised ostiole; ascospores colorless, 2-celled, obtuse-ellipsoid, tapering to pointed ends, ca. 8-per ascus, uniseriate, 36-40µm x 15-20µm.

James C. Lendemer #3371

October 24, 2004

**188. *Pertusaria trachythallina* Erichsen**

Det. J.C. Lendemer – November 4, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW YORK. ESSEX COUNTY.:** On fallen branches, in a hardwood swamp with maple (*Acer*), elm (*Ulmus*), and sparse conifers, bordered by rocky outcrops, along Ausable River, west side of NY Route #21. – elev. 500 ft. – UTM 18 0585097E 4904975N - Lat. 44° 17' 35" N, Long. 73° 56' 00" W – *Assoc. spp.:* *Hypogymnia physodes*, *Parmelia squarrosa*, *Flavoparmelia caperata*, *Usnea merrillii*, *Usnea filipendula*, *Cetrelia olivetorum*, *Buellia stillingiana*.

Thallus corticolous, crustose, thick, gray, esorediate, UV-; ascomata discoid, discs densely pruinose, UV-, C-, PD+ yellow/orange.

James C. Lendemer *et al.* #3116

September 18, 2004

w/ participants of 2004 A. Leroy Andrews Foray

**189. *Catinaria atropurpurea* (Schrader) Vězda & Poelt**

Det. J.C. Lendemer – November 9, 2004

Duplicate Confirmed (NY!) – R.C. Harris – December 17, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On the bark of a red maple (*Acer rubrum*), in an open oak (*Quercus*) dominated pine (*Pinus rigida*) – oak forest, on a gentle hillside grading into a swampy mixture of Atlantic white cedar (*Chamaecyparis*) – red maple (*Acer rubrum*) on the east shore of the Batsto River, just south of Batsto, Wharton State Forest. – elev. 0-10 ft. - UTM 18 530059E 4388055N – Lat. 39° 38' 30"N, Long. 74° 38' 59"W. – *Assoc. spp.:* *Flavoparmelia caperata*, *Punctelia rudecta*, *Physcia millegrana*, *sterile soorediate crust*, *Parmelinopsis minarum*.

Thallus corticolous, crustose, thin, green, dispersed to well developed, esorediate; apothecia dark brown; margins excluded as disc becomes convex; epihymenium brown; pigment KOH+ darker brown; hymenium colorless; hypothecium brown, KOH-; exciple colorless, KOH-; ascospores colorless, 2-celled, obtuse-ellipsoid, ca. 8-per ascus, 14µm x 6-6.5µm.

James C. Lendemer #3486

November 6, 2004

**190. *Punctelia missouriensis* Wilhelm & Ladd**

Det. J.C. Lendemer – November 28, 2004

Duplicate Confirmed (NY!) – Richard C. Harris – January 4, 2004

**UNITED STATES OF AMERICA. MARYLAND. CECIL COUNTY.:** On the base of an old oak (*Quercus*), on the overgrown margins of the older portions of West Noddingham Presbyterian Cemetery, West Nottingham Presbyterian Church, West Noddingham. – elev. ca. 340 ft. - UTM 18 407687E 4391813N – Lat. 39° 40' 16"N, Long. 76° 04' 35"W – *Assoc. spp.:* *Flavoparmelia caperata*, *Lepraria sp.*, *Physcia millegrana*.

Thallus corticolous, foliose, blue-gray, pseudocyphellate, isidio-soorediate; medulla white, C+ red; lobes broad as in *P. rudecta* (Acharius) Krog; soralia laminal and marginal, with few soredia; soredia weakly corticate, inflated and isidioid-pustulose, with age nearly covering the thallus surface; underside pale; margins epruinose, blue-gray or slightly browned.

James C. Lendemer #3551 & Ethel W. McCardell

November 28, 2004

**191. *Punctelia rudecta* (Acharius) Krog**

Det. J.C. Lendemer – November 28, 2004

Duplicate Confirmed (NY!) – Richard C. Harris – January 4, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On the bark of an oak (*Quercus*), in an oak (*Quercus*) dominated, moist, pine (*Pinus rigida*) – oak forest, with many small sunny openings and sparse ericaceous understory, along the west shore of the Skit Branch of the Batsto River, south of unnamed paved road, north of Carranza Memorial, north of Friendship, ca. 2.5 miles northeast of Hampton Furnace, Wharton State Forest. – elev. 40-50 ft. – UTM 18 529168E 4404058N - Lat. 39° 47' 10"N, Long. 74° 39' 34"W – *Assoc. spp.:* *Flavoparmelia caperata*, *Lepraria incana*, *Lecanora strobilina*, *Cladonia sp.*

Thallus corticolous, foliose, blue-gray, esorediate, isidiate, loosely adnate, pseudocyphellate; medulla white, C+ red; lobes broad; isidia laminal, cylindrical, tall, branched, brown tipped; underside pale; margins epruinose, blue-gray.

James C. Lendemer #3549 & Richard F. Lendemer

November 13, 2004

**192. *Micarea melaena*** (Nylander) Hedlund

Det. J.C. Lendemer – November 28, 2004

**UNITED STATES OF AMERICA. NEW JERSEY. BURLINGTON COUNTY.:** On a rotting pine log, in a dense, upland mixed pine (*Pinus rigida*) – oak (*Quercus*) forest, along the west shore of Batsto River, 0-1/4 mile north of Hampton Furnace, east of Atsion, Wharton State Forest. – elev. 0-10 ft. - UTM 18 527217E 4402575N – Lat. 39° 46' 22"N, Long. 74° 40' 56"W – *Assoc. spp.:* *Imshaugia aleurites*, *Cladonia macilenta*, *Cladonia grayi*, *Lecanora sp.*

Thallus lignicolous, crustose, thin to thick, green, esorediate, verruculose; apothecia black, hemispherical, often deformed; epihymenium blue-green, KOH-; hymenium with blue-green pigment in upper portions and purple-brown pigment in lower portions; hypothecium purple-brown, KOH+ purplish diffusing pink into the surrounding mount; exciple brown to brown-purple; ascospores 8-per ascus, colorless, (0)-(2)-4 celled, fusiform or tapering to one end, 17-19µm x 5-6µm.

James C. Lendemer #3550 & Richard F. Lendemer

November 13, 2004

**193. *Usnea filipendula*** Stirton

Det. J.C. Lendemer – December 7, 2004

**UNITED STATES OF AMERICA. NEW YORK. ESSEX COUNTY.:** On twigs and branches of dead conifers, in a hardwood swamp with maple (*Acer*), elm (*Ulmus*), and sparse conifers, bordered by rocky outcrops, along Ausable River, west side of NY Route #21. – elev. 500 ft. – UTM 18 0585097E 4904975N - Lat. 44° 17' 35" N, Long. 73° 56' 00" W – *Assoc. spp.:* *Hypogymnia physodes*, *Parmelia squarrosa*, *Flavoparmelia caperata*, *Usnea subfloridana*, *Pertusaria trachythallina*, *Pertusaria amara*, *Lecanora thysanophora*, *Buellia stillingiana*, *Lecanora pulicaris*, *Lecanora symmicta*, *sterile sorediate crust.*

Thallus corticolous, fruticose, isidiate, dull green to light green, lax to somewhat stiff; branches not distinctly inflated, occasionally with slight ridges near point of attachment of fibrils, epruinose; tips curling and fragile; papillae sparse to abundant, tall, cylindrical; fibrils regular, not articulated, not inflated, tapering; occasional soralia arising from cortex where papillae are broken, often with one or few isidioid-incipient fibrils. *All thalli TLC: usnic acid, salazinic acid, consalazinic acid.*

Note that there is confusion surrounding *U. filipendula* and other supposedly similar taxa (especially *U. diplotypus* Vainio). I have not seen the type material of either *U. filipendula* or *U. diplotypus*. The differences cited by Brodo et al (2001) seem rather ambiguous. One must admit that sterile elongate *Usnea* species are poorly understood and much work remains to be done at the species level. While Brodo et al. (2001) do not note a chemical different between the above two species, Halonen et al. (1998) state that *U. diplotypus* often produces barbatic acid in addition to usnic and salazinic acids. Assuming all of the material distributed under this number represents *U. filipendula*, the species is rather variable especially in aspects of thallus color, basal color, and abundance of soralia/isidia/fibrils. Presently I am relying on the coarse cortex with raised cylindrical papillae (especially towards the base), curled branch tips, lack of foveae, ridges, or inflated branches, chemistry, and darkened basal portions (especially older broken branches) to identify the species.

James C. Lendemer *et al.* #3553

w/ participants of 2004 A. Leroy Andrews Foray

September 18, 2004

**194. *Pertusaria texana*** Müll. Arg.

Det. J.C. Lendemer – January 28, 2005

**UNITED STATES OF AMERICA. NORTH CAROLINA. PENDER COUNTY.:** On the branches of *Amelanchier*, in a *Pinus palustris* - *Quercus laevis* dominated sand scrub, just east of Shaw Highway (SR #1523), at intersection with Lodge Road, 5.3 miles south of NC #53, Holly Shelter Game Land. – elev. 10 ft. - UTM 18 242028E 3826949N – Lat. 34° 33' 07"N, Long. 77° 48' 41"W – *Assoc. spp.:* *Rimelia subisidiosa*,

*Graphis lucifica*, *Gyalideopsis* spp., *Buellia stillingiana*, *Parmotrema hypotropum*, *Parmotrema perforatum*, *Pyrrhospora russula*.

Thallus corticolous, crustose, thick, yellow-gray, esorediate, UV+ orange, KOH+ yellow; ascomata wart-like, not compound; ostiole raised, yellow; ascospores 4-8-per ascus, colorless, obtuse-ellipsoid, 58-64µm x 28-32µm.

James C. Lendemer #3726 & Erin Tripp

December 13, 2004

195. *Parmotrema xanthinum* (Müll. Arg.) Hale

Det. J.C. Lendemer – January 28, 2005

**UNITED STATES OF AMERICA. NORTH CAROLINA. PENDER COUNTY.:** On the base of an oak (*Quercus*), in a *Pinus palustris* - *Quercus laevis* dominated sand scrub, just east of Shaw Highway (SR #1523), at intersection with Lodge Road, 5.3 miles south of NC #53, Holly Shelter Game Land. – elev. 10 ft. - UTM 18 242028E 3826949N – Lat. 34° 33' 07"N, Long. 77° 48' 41"W – *Assoc. spp.:* *Buellia stillingiana*, *Parmotrema tinctorum*, *Parmotrema rampoddense*, *Rimelia subsidiosa*, *Rimelia reticulata*, *Usnea pensylvanica*, *Usnea mutabilis*, *Usnea strigosa*-group, *Lecanora hybocarpa*, *Lecanora louisiana*e. *Lecanora strobilina*, *Arthonia* sp.

Thallus corticolous, foliose, esorediate, isidiate, green; cortex UV-; medulla white, UV, C-; underside black with brown margins; lobes broad; marginal cilia present; isidia cylindrical, laminal.

James C. Lendemer #3727 & Erin Tripp

December 13, 2004

196. *Chrysothrix flavovirens* Tønsberg s. lat.

Det. J.C. Lendemer – January 28, 2005

**UNITED STATES OF AMERICA. NORTH CAROLINA. CRAVEN COUNTY.:** On the bark of a pitch pine (*Pinus rigida*), rich upland mixed forest with *Quercus* spp., *Ilex opaca*, *Acer rubrum*, *Fraxinus americanum*, and a system of lowland *Acer* swamps, north of Flanners Beach Road, west of Flanners Beach Campground, west of SR #70, north of Havelock, Croatan National Forest. – elev. 10-30 ft. – UTM 18 321856E 3872750N – Lat. 34° 58' 54"N, Long. 76° 57' 06"W - *Assoc. spp.:* *Lepraria* sp., *Rimelia subsidiosa*.

Thallus corticolous, crustose, thin, yellow-green (dull). The collection is referred to *C. flavovirens* s. lat. because, as noted by Harris & Lendemer (2005) North American material lacks diffractaic acid.

James C. Lendemer #3728 & Erin Tripp

December 13, 2004

197. *Phlyctis ludoviciensis* (Müll. Arg.) Lendemer *comb. nov.*<sup>2</sup>

Det. J.C. Lendemer – February 15, 2005

**UNITED STATES OF AMERICA. NORTH CAROLINA. CRAVEN COUNTY.:** On the bark of small trees in a wet, *Nyssa* dominated pocosin with a *Lyonia* understory, along the east shore of Catfish Lake, along Forest Service Road #158, ca. ½ mile north of intersection with Catfish Lake Road, Croatan National Forest. – elev. ca. 10 ft. – UTM 308416E 3867809 – Lat. 34° 56' 11"N, Long. 71° 05' 52"W - *Assoc. spp.:* *Haematomma* sp., *Opegrapha* spp., *Brigantiaea leucoxantha*, *Pseudosagedia cestrense*, *Buellia stillingiana*, *Arthonia* sp., *Arthothelium interveniens*.

Thallus corticolous, crustose, thin to thick, blue-gray, smooth to verruculose, with poorly defined white prothallus; ascomata semi-immersed, covered with thalline granules.

James C. Lendemer #1051 & Rebecca Yahr

July 4, 2003

198. *Phlyctis argena* (Sprengel) Flotow

Det. J.C. Lendemer – February 26, 2005

**UNITED STATES OF AMERICA. NEW YORK. ESSEX COUNTY.:** On the bark of small red maples (*Acer rubrum*), mixed hardwood forest (*Acer*, *Juglans*, *Betula*) with a small maple (*Acer rubrum*) swamp, low portions of drainage for Holcomb Pond into Ausable River, along NY Route #21. – elev. 500 ft. – UTM 18 585231E 4904273N – Lat. 44° 17' 12" N, Long. 73° 55' 54" W – *Assoc. spp.:* *sterile soorediate* sp., *Rinodina subminuta*, *Rinodina* sp., *Lepraria lobificans*, *Flavoparmelia caperata*, *Arthonia* sp., *Parmelia squarrosa*.

Thallus corticolous, crustose, thick, verruculose, blue-gray, soresiate, KOH+ yellow turning red (norstictic acid crystals in squash); soredia coarse, granular, poorly developed; ascomata abundant, margins torn and ragged; ascospores 1-per ascus, hyaline to light brown, muriform, obtuse-ellipsoid, ca. 120 x 38µm.

James C. Lendemer *et al.* #2988  
w/ participants of 2004 A. Leroy Andrews Foray

September 18, 2004

199. *Bacidia schweinitzii* (Fries *ex* Michener) A. Schneider  
Det. J.C. Lendemer – February 27, 2005

**UNITED STATES OF AMERICA. NEW YORK. ESSEX COUNTY.:** On the bark of maples (*Acer*), in a hardwood swamp with maple (*Acer*), elm (*Ulmus*), and sparse conifers, bordered by rocky outcrops, along Ausable River, west side of NY Route #21. – elev. 500 ft. – UTM 18 0585097E 4904975N - Lat. 44° 17' 35" N, Long. 73° 56' 00" W – *Assoc. spp.:* *Lecanora thysanophora*, *Lecanora rugosella*, *Pertusaria amara*, *Pertusaria trachythallina*, *Parmelia squarrosa*, *Parmelia sulcata*, *Hypogymnia physodes*, *Flavoparmelia caperata*.

Thallus corticolous, crustose, thin to thick, granulose to subsquamulose, brownish-green; apothecia black, plane; margins persisting; epihymenium blue-green, KOH-; hymenium colorless, KOH-; hypothecium brown, KOH-; exciple brown, KOH+ purplish; ascospores colorless, tapering, ca. 8-per ascus, transversely septate, 56-60 x 2.5-3µm.

James C. Lendemer *et al.* #3778  
w/ participants of 2004 A. Leroy Andrews Foray

September 18, 2004

200. *Usnea strigosa* (Acharius) A. Eaton  
Det. J.C. Lendemer – February 27, 2005

**UNITED STATES OF AMERICA. NORTH CAROLINA. PENDER COUNTY.:** On the branches an oak (*Quercus*), in a *Pinus palustris* - *Quercus laevis* dominated sand scrub, just east of Shaw Highway (SR #1523), at intersection with Lodge Road, 5.3 miles south of NC #53, Holly Shelter Game Land. – elev. 10 ft. - UTM 18 242028E 3826949N – Lat. 34° 33' 07"N, Long. 77° 48' 41"W – *Assoc. spp.:* *Buellia stillingiana*, *Lecanora louisianae*, *Lecanora hybocarpa*, *Lecanora strobilina*, *Piccolea conspersa*, *Usnea pennsylvanica*, *Usnea mutabilis*, *Usnea subscabrosa*, *Parmotrema submarginale*, *Parmotrema perforatum*, *Parmotrema tinctorum*, *Rimelia reticulata*, *Rimelia subisidiosa*.

Thallus corticolous, fruticose, pale yellow-green, esoresiate; cortex thick; medulla pigmented red, lax; axis opaque; papillae abundant; fibrils irregular, short, poorly articulated, not inflated or deformed; apothecial cilia not inflated or deformed; discs pruinose.

James C. Lendemer #3779 & Erin Tripp

December 13, 2004

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## ENDNOTES

### 1. *Lepraria caesiella* R.C. Harris *sp. nov.*

*Lepraria* externe similis *L. incanae* (L.) Acharius sed atranorin et zeorin continens.

TYPE: UNITED STATES OF AMERICA. PENNSYLVANIA. MONROE COUNTY.: On a large dead birch (*Betula*), Community Drive Wetlands, drained portions boarded by *Alnus*, and swampy portions primarily with *Acer* and *Fraxinus*, bisected by Hogback Ridge forested with dense hemlocks (*Tsuga*) and large semi-calcareous rock exposures and boulders, ca. 1 mile southeast of Shoemakers, ca. 2 miles south of Bushkill, Delaware Water Gap National Recreation Area. – elev. ca. 700-800 ft. - Lat. 41° 04' 43"N, Long. 75° 00' 24"W. - 24.April.2004 - J.C. Lendemer 2304 & R.C. Harris *et al.* (NY!, holotype; isotypes distributed as *Lichens of Eastern North America Exsiccati*, no. 172).

Thallus pale bluish gray (fades to white in herbarium), poorly delimited, consisting of loosely to densely packed soredia/consoredia without medulla and prothallus, initially of scattered soredia/consoredia, then forming small patches which fuse to form extensive, irregular,  $\pm$  continuous thalli, rather thin, 0.1-0.2 mm thick, containing atranorin and zeorin. Soredia 20-30  $\mu$ m in diameter, filled with small crystals, with short, irregular, projecting hyphae, 25-30  $\mu$ m long. Consoredia to 100  $\mu$ m in diameter.

*Lepraria caesiella* is widely distributed east of the prairies from northern Alabama and central Mississippi to southern Canada in shaded woods on deciduous trees and conifers, rarely on rock and once on lignum. In old herbarium specimens and older American literature this species was most commonly identified as *Lepraria incana* (incl. *L. aeruginosa* auct.), which contains divaricatic acid and zeorin (Laundon, 1992). Harris (1977) recognized it as distinct (as *Lepraria* sp. 3). It has languished since then for almost 30 years without a name. Its belated description results from a recent large collection by James Lendemer to serve as type.

*Lepraria caesiella* is recognized by (and named for) its distinctive pale blue gray color. It is further characterized by its thin thallus lacking medulla and prothallus and by the presence of atranorin and zeorin. Another unnamed? *Lepraria* with atranorin and zeorin which is morphologically rather similar to *Lepraria rigidula* (de Lesd.) Tønsberg differs in having additionally a fatty acid and a distinct medulla. An unnamed soraliate *Lecanora*? with atranorin and zeorin may become granular leprose centrally but one can usually find non-leprose areas with distinct soralia to distinguish it from *L. caesiella*.

*Lepraria caesiella* is probably the third or fourth most common *Lepraria* in eastern North America north of the southern Coastal Plain. Of the 130 collections for which I have the host tree recorded it occurs on 23 different species, 43% on conifers (preferentially *Pinus* and *Tsuga*), 57% on deciduous trees (preferentially *Quercus*). Also there are five collections from rock and one on lignum.

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Figure 1. *Lepraria caesiella* R.C. Harris, Lendemer 2304 (NY), holotype.



2. *Phlyctis ludoviciensis* (Müll. Arg.) Lendemer **comb. nov.**

*Phlyctidia ludoviciensis* Müll. Arg., Hedwigia 34: 141. 1895. TYPE: USA. LOUISIANA. St. Martinsville, on *Planera* [= *Carya*] *aquatica*; 4.June.1894; *A.B. Langlois* 830 (PH!, isotype).

The genus *Phlyctidia* Müll. Arg., is presently considered a synonym of *Phlyctis* (Wallroth) Flotow and most of the names placed in *Phlyctidia* by Müller (1895) have returned to *Phlyctis*. *Phlyctis ludoviciensis* however, remained in *Phlyctidia* (Esslinger, 1997) and is transferred to *Phlyctis* here. The species is common in the southeastern United States and is easily recognized by the thick blue-gray thallus, presence of psoromic acid, *Phlyctis*-type ascomata (buried in the thallus and covered with thalline granules), and large muriform ascospores.