

Checklist of the lichens of The Reserva Florestal Adolphe Ducke in Manaus (Amazonas, Brazil)

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ABSTRACT—A checklist is presented of the lichenized fungi of The Reserva Florestal Adolphe Ducke in Manaus (Amazonas, Brazil), which is one of the best studied and most accessible forest reserves in the Amazon. In total, 295 species are reported, 116 of which are newly reported here based on new sampling by the authors, 10 of which are first reports for Brazil, and 50 more are new reports to the Amazonas state. Among these, 214 are corticolous species, 81 are foliicolous and five are terricolous or on termitaria, with five species occurring both on bark and living leaves.

KEY WORDS—Amazon Forest, living leaves, diversity, termite nest, tree bark

Introduction

While most of the Amazon Rain Forest remains still little disturbed, these areas are generally remote and difficult to access. The Reserva Ducke is a remarkable exception—it is situated just outside the capital, Manaus. It is a perfect square of 100 km² of undisturbed lowland rain forest. There is an access road and a few lodging and administration buildings inside one corner, and from there many kilometers of walking trails are marked. The biodiversity of the reserve has been a subject of continual biodiversity research (e.g., Oliveira & Mori 1999; Ribeiro & al. 1999; Hopkins 2005).

One thorough survey of the lichens in the Ducke reserve has been carried out previously (Cáceres & Aptroot 2017), citing almost 200 species. Only about a dozen other published lichen records from the reserve exist (Lücking 2008 [in which earlier reports by Batista & al. which are not cited here are treated and revised], Aptroot & Cáceres 2017, Cáceres & al. 2017). In 2019, we visited the Ducke reserve again, and this time we concentrated on fallen trees and branches (which mostly contain a very distinct lichen flora from the trunks) and on lichens growing on living leaves, the so-called foliicolous lichens.

Here we present a checklist based on all available identifiable materials from this reserve, listed per substratum.

Material and methods

Lichens were collected in the field, mostly on fallen trees and branches and on living leaves of plants, especially saplings, in the understorey of the forest. Specimens were air dried and morphologically analyzed by handlens (Leuchtlupe with UV), dissecting microscope and compound microscope (Olympus BX50). A selection of specimens was chemically analyzed, by applying standard spot tests and/or thin layer chromatography.

Specimens are kept in INPA as well as in ISE, with duplicates of the corticolous specimens also present in ABL. Numbers are ISE herbarium numbers; those starting with 28 were collected in 2016, numbers starting with 50 in 2019. All specimens in INPA also bear INPA numbers; the corticolous and terricolous ones ranging between 284551 and 284733. Abbreviations with 2 capitals refer to the official states in Brazil.

Results

In total, 295 species are reported, 116 of which are newly reported here from the reserve, based on new collections by the authors, 10 of which are first reports for Brazil and 50 more are new reports from the Amazonas state. Among these, 214 are corticolous species, 81 foliicolous and 5 terricolous or on termitaria, with five species occurring both on bark and living leaves.

Corticolous:

Acanthotrema brasilianum (Hale) Frisch, *Bibliotheca Lichenol.* 92: 78 (2006)

≡ *Thelotrema brasilianum* Hale [as '*brasiliana*'], in Kalb 1983

Distribution in Brazil: AM (Staiger & Kalb 1999); MG (Aptroot 2002); BA, MT (Frisch 2006); SE (Cáceres 2007); RO (Cáceres & al. 2014a); SP (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Aderkomyces heterellus (Stirt.) Lücking, Sérus. & Vězda, *Lichenologist* 37(2): 162 (2005)

≡ *Arthonia heterella* Stirt. 1879

Distribution in Brazil: AM, PE, PR (Lücking 2008); SP (Kalb & Vězda 1988);

MT (Lücking & Kalb 2000); PA (Lücking & Cáceres 2002); CE (Alves 2014);

BA (Santos & al. 2016); RO (Cáceres & al. 2014).

Examined material: ISE (50785).

Aggregatorygma triseptatum M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot, Parmen & Lücking, *Phytotaxa* 189(1): 89 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017);

PA, TO (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Agonimia tenuiloba Aptroot & M. Cáceres, *Lichenologist* 45(6): 764 (2013)

Distribution in Brazil: RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014);

AM (Cáceres & Aptroot 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Allographa acharii (Fée) Lücking & Kalb, in Kalb, Lücking & Kalb,

Phytotaxa 377(1): 15 (2018)

≡ *Graphis acharii* Fée 1825

Distribution in Brazil: MG, RJ, SP (Staiger 2002); SC (Müller 1895); MT (Redinger 1934);

RS (Spielmann 2006); PE (Cáceres 2007); PR (Dal-Forno 2009); CE (Menezes 2013);

RO, SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); BA (Cáceres & al. 2016);

MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Examined material: ISE (50727).

Allographa brachylirellata (M. Cáceres & Lücking) Lücking & Kalb,

Herzogia 31(1, Teil 2): 547 (2018)

≡ *Graphis brachylirellata* M. Cáceres & Lücking, in Cáceres, Vieira, Jesus & Lücking, (2012)

Distribution in Brazil: PA (Cáceres & al. 2012); RO (Cáceres & al. 2014).

Geographical record: New to Amazonas.

Examined material: ISE (28244).

Allographa pitmanii (Rivas Plata & Lücking) Lücking & Kalb,

Herzogia 31(1, Teil 2): 554 (2018)

≡ *Graphis pitmanii* Rivas Plata & Lücking, (2012)

Distribution in Brazil: RO (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017);

BA (Cáceres & al. 2016); SE (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017)., as *Graphis pitmanii*.

Allographa sitiana (Vain.) Lücking & Kalb, *Herzogia* 31(1, Teil 2): 555 (2018)

≡ *Graphis sitiana* Vain. 1890

Distribution in Brazil: CE (Menezes 2013); MG (Vainio 1890); RS (Spielmann 2006);

PR (Dal-Forno 2009); RO, SE (Cáceres & al. 2014); BA (Cáceres & al. 2016);

AM (Cáceres & Aptroot 2017); PB (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017), as *Graphis sitiana*.

Ampliotrema dactylizum (Hale) Sipman, Lücking & Grube, in Sipman, Lücking, Aptroot, Chaves, Kalb & Umaña Tenorio, *Phytotaxa* 55: 24 (2012)

≡ *Ocellularia dactyliza* Hale 1978

Geographical record: New to Brazil.

Examined material: ISE (28387 & 28485).

Ampliotrema lepadinoides (Leight.) Kalb, in Frisch, *Bibliotheca Lichenol.* 92: 81 (2006)

≡ *Thelotrema lepadinoides* Leight. 1866

Distribution in Brazil: AM (Kalb 2004); RO (Cáceres & al. 2014a); AP (Cáceres & Aptroot 2016);

PA (Aptroot & al. 2017); BA (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Anisomeridium leptospermum (Zahlbr.) R.C. Harris,

More Florida Lichens, *Incl. 10 Cent Tour Pyrenol.* (New York): 147 (1995)

≡ *Arthopyrenia adnexa* var. *leptosperma* Zahlbr., in Skottsberg 1924

Distribution in Brazil: PE (Lima 2013); SE (Cáceres & al. 2014); RS (Käffer & al. 2015);

AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Anomomorpha turbulenta (Nyl.) Nyl., in Hue,

Nouv. Arch. Mus. Hist. Nat., Paris, 3 sér. 3: 167 (1891)

≡ *Graphis turbulenta* Nyl. 1889

Distribution in Brazil: RJ, SP (Staiger 2002); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016);

PE (Menezes & al. 2018); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Arthonia meissneri Müll. Arg., *Mém. Soc. Phys. Hist. nat. Genève* 29(no. 8): 54 (1887)

Distribution in Brazil: AP (Cáceres & Aptroot 2016).

Geographical record: New to Amazonas.

Examined material: ISE (50779).

Arthonia rubrocincta G. Merr. ex Grube & Lendemer, *Opuscula Philolichenum* 7: 9 (2009)

Distribution in Brazil: RO (Cáceres & al. 2014b); AM (Cáceres & Aptroot 2017);

BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017).

Astrochapsa platycarpella (Vain.) Parnmen, Lücking & Lumbsch,

PLoS ONE 7(12): e51392, 9 (2012)

≡ *Thelotrema platycarpellum* Vain. 1923

Distribution in Brazil: PE, RN, SE (Cáceres 2007); RO (Cáceres & al. 2014a);

AP (Cáceres & Aptroot 2016); PA (Aptroot & al. 2017); PB (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium aeneoides Aptroot, in Aptroot, Mendonça, Andrade, Silva, Martins, Gumboski, Fraga Junior & Cáceres, *Lichenologist* 48(6): 714 (2016)

Distribution in Brazil: MG, MS (Aptroot & al. 2016); AM (Cáceres & Aptroot 2017);

PA (Aptroot & al. 2017); PB (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium aeneum (Eschw.) Aptroot & Lücking, *Lichenologist* 48(6): 821 (2016)

≡ *Verrucaria aenea* Eschw., in Martius 1834

Distribution in Brazil: AM, BA, MT, MS (Harris 1986); RJ (Krempelhuber 1876); PA (Müller 1884); MG (Malme 1924); SP (Kalb 1982b); AL (Cáceres 2007); CE (Menezes 2013); PE (Lima 2013); RO, SE (Cáceres & al. 2014); PB (Xavier-Leite 2013; Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016); MA, TO (Aptroot & al. 2017); PR, SC (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium bicolor (Taylor) Aptroot & Lücking, *Lichenologist* 48(6): 847 (2016)

≡ *Trypethelium bicolor* Taylor 1847

Distribution in Brazil: AM, PA (Harris 1986); RJ (Krempelhuber 1876); MG (Aptroot 2002); RS (Spielmann 2006); AL, RN (Cáceres 2007); CE (Menezes 2013); PE (Lima 2013); RO, SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); MA (Aptroot & al. 2017); SC (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium ceratinum (Fée) Aptroot & Lücking, *Lichenologist* 48(6): 852 (2016)

≡ *Pyrenula ceratina* Fée 1837

Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); SC (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium cinnamomeum (Eschw.) Müll. Arg., *Flora, Regensburg* 67(35): 670 (1884)

≡ *Pyrenastrum cinnamomeum* Eschw., in Martius 1834

Distribution in Brazil: AC, BA, AM (Harris 1986); MG (Aptroot 2002); PE (Cáceres 2007); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); MA, PA, TO (Aptroot & al. 2017); PB, SC (Menezes & al. 2018).

Examined material: ISE (50747)

Astrothelium corallinum Aptroot, in Aptroot, Ertz, Etayo Salazar, Gueidan, Mercado Diaz, Schumm & Weerakoon, *Lichenologist* 48(6): 614 (2016)

Distribution in Brazil: AM (Cáceres & Aptroot 2017);

Previous report: Cáceres & Aptroot (2017).

Astrothelium crassum (Fée) Aptroot, in Aptroot, Lücking, Sipman, Umaña & Chaves,

Bibliotheca Lichenol. 97: 45 (2008)

≡ *Trypethelium crassum* Fée 1825

Distribution in Brazil: RO, SE (Cáceres & al. 2014); AM, RR (Harris 1986); RS (Käffer & al. 2015); AP (Cáceres & Aptroot 2016); PA (Aptroot & al. 2017); MG, SP (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium cryptolucens Lücking, M.P. Nelsen & N. Salazar, in Lücking, Nelsen, Aptroot, Benatti, Binh, Gueidan, Gutiérrez, Jungbluth, Lumbsch, Marcelli, Moncada, Naksuwankul, Orozco, Salazar-Allen & Upreti, *Lichenologist* 48(6): 644 (2016)

Geographical record: New to Brazil.

Examined material: ISE (50665, 50669 & 50767).

Astrothelium dimidioinspersum M. Cáceres & Aptroot, *Bryologist* 120(2): 170 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Astrothelium disjunctum Aptroot & M. Cáceres, *Lichenologist* 48(6): 697 (2016)

Distribution in Brazil: RO (Aptroot & M. Cáceres 2016b); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Astrothelium eustomurale Aptroot & M. Cáceres, *Lichenologist* 48(6): 698 (2016)
 Distribution in Brazil: RO (Aptroot & M. Cáceres 2016b); AP (Cáceres & Aptroot 2016);
 AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium flavoduplex Aptroot & M. Cáceres, *Lichenologist* 48(6): 699 (2016)
 Distribution in Brazil: RO (Aptroot & M. Cáceres 2016b); AP (Cáceres & Aptroot 2016).
 Geographical record: New to Amazonas.
 Examined material: ISE (50675).

Astrothelium flavomeristosporum Aptroot, in Aptroot, Ertz, Etayo Salazar, Gueidan, Mercado Diaz,
 Schumm & Weerakoon, *Lichenologist* 48(6): 617 (2016)
 Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium guianense Aptroot, in Aptroot, Ertz, Etayo Salazar, Gueidan, Mercado Diaz, Schumm
 & Weerakoon, *Lichenologist* 48(6): 618 (2016)
 Distribution in Brazil: AM (Cáceres & Aptroot 2018)
 Previous report: Cáceres & Aptroot 2018, as *Astrothelium sipmanii*

Astrothelium inspersaeneum E.L. Lima, Aptroot & M. Cáceres, in Leandro de Lima, Costa Maia,
 Aptroot & Eugenia da Silva Cáceres, *Bryologist* 116(4): 327 (2013)
 Distribution in Brazil: PE (Lima & al. 2013c); CE (Alves 2014); RO, SE (Cáceres & al. 2014);
 AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); MA (Aptroot & al. 2017);
 PB (Menezes & al. 2018); BA (Aptroot & Cáceres 2018).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium intermedium Aptroot & Lüicking, in Aptroot, Lüicking, Sipman, Umaña & Chaves,
Bibliotheca Lichenol. 97: 46 (2008)
 Distribution in Brazil: AM (Cáceres & Aptroot 2017)
 Previous report: Cáceres & Aptroot (2017).

Astrothelium kunzei (Fée) Aptroot & Lüicking, *Lichenologist* 48(6): 865 (2016)
 ≡ *Trypethelium kunzei* Fée 1831
 Distribution in Brazil: MA, PA (Aptroot & al. 2017); AM (Cáceres & Aptroot 2017);
 MS (Aptroot & Spielmann 2020).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium macrocarpum (Fée) Aptroot & Lüicking, *Lichenologist* 48(6): 867 (2016)
 ≡ *Porina macrocarpa* Fée 1825
 Distribution in Brazil: AM, PA (Harris 1986); MG (Vainio 1890); GO (Müller 1895);
 RO, SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); PB, RS (Menezes & al. 2018);
 BA (Aptroot & Cáceres 2018).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium megeustomurale M. Cáceres & Aptroot, *Bryologist* 120(2): 172 (2017)
 Distribution in Brazil: AM, RO, TO (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium nigricans Malme, *Ark. Bot.* 19(no. 1): 13 (1924)
 Distribution in Brazil: MT (Malme 1924); AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium nitidiusculum (Nyl.) Aptroot & Lücking, *Lichenologist* 48(6): 873 (2016)
 ≡ *Verrucaria nitidiuscula* Nyl. 1863

Distribution in Brazil: RO (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016);
 AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017);
 AL, MG, RN, PB, PE, SE, RS, SC, SP (Menezes & al. 2018).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium obscurum Müll. Arg., *Flora, Regensburg* 66(16): 244 (1883)

Distribution in Brazil: MG (Aptroot 2002); RO (Cáceres & al. 2014);
 SP (Aptroot & Lücking 2016); AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium ochrothelium (Nyl.) Müll. Arg., *Flora, Regensburg* 68(12): 255 (1885)

≡ *Trypethelium ochrothelium* Nyl. 1863
 Distribution in Brazil: AM (Harris 1986); RO, SE (Cáceres & al. 2014);
 PB (Menezes & al. 2018).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium papulosum (Nyl.) Aptroot & Lücking, *Lichenologist* 48(6): 876 (2016)

≡ *Verrucaria papulosa* Nyl. 1867
 Distribution in Brazil: AP (Aptroot & Lücking 2016); AM (Leighton 1866);
 SC (Menezes & al. 2018).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium phlyctaena (Fée) Aptroot & Lücking, *Lichenologist* 48(6): 877 (2016)

≡ *Trypethelium phlyctaena* Fée 1825
 Distribution in Brazil: RJ (Aptroot & Lücking 2016); AM, PA (Leighton 1866); AP (Cáceres &
 Aptroot 2016); MA (Aptroot & al. 2017); AL, BA, MG, PB, PE, PR, RS, SC, SE (Menezes & al.
 2018); MS (Aptroot & Spielmann 2020).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium pleiostomum Redinger, *Hedwigia* 73: 58 (1933)

Distribution in Brazil: AM (Redinger 1933); RR (Harris 1986).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium puiggarii (Müll. Arg.) Aptroot & Lücking, *Lichenologist* 48(6): 880 (2016)

≡ *Campylothelium puiggarii* Müll. Arg. 1883
 Distribution in Brazil: RS (Spielmann 2006); SP (Harris 1986); RO, SE (Cáceres & al. 2014);
 BA (Cáceres & al. 2016); RJ (Aptroot & Lücking 2016); AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium rubrostiolatum M. Cáceres & Aptroot, *Bryologist* 120(2): 174 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium rufescens (Müll. Arg.) Aptroot & Lücking, *Lichenologist* 48(6): 883 (2016)

≡ *Trypethelium catervarium* var. *rufescens* Müll. Arg. 1885
 Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017);
 PA, TO (Aptroot & al. 2017); PB (Menezes & al. 2018); BA (Aptroot & Cáceres 2018);
 MS (Aptroot & Spielmann 2020).
 Previous report: Cáceres & Aptroot (2017).

Astrothelium scorioides Nyl., *Annls Sci. Nat., Bot., sér. 5 7*: 348 (1867)

Distribution in Brazil: PE (Cáceres 2007); RO, SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Astrothelium stromatofluorescens Aptroot & M. Cáceres, *Lichenologist* 48(6): 709 (2016)

Distribution in Brazil: RO (Aptroot & M. Cáceres 2016b)

Geographical record: New to Amazonas.

Examined material: ISE (50668).

Astrothelium subdisjunctum (Müll. Arg.) Aptroot & Lücking, *Lichenologist* 48(6): 890 (2016)

≡ *Bottaria subdisjuncta* Müll. Arg. 1885

Distribution in Brazil: RJ (McCarthy 1995); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Astrothelium subscoria Flakus & Aptroot, in Flakus, Kukwa & Aptroot, *Lichenologist* 48(6): 674 (2016)

Distribution in Brazil: AP (Cáceres & Aptroot 2016); TO (Aptroot & al. 2017);

BA (Aptroot & Cáceres 2018).

Geographical record: New to Amazonas.

Examined material: ISE (50685).

Astrothelium supraclandestinum Aptroot & M. Cáceres, *Lichenologist* 48(6): 709 (2016)

Distribution in Brazil: RO (Aptroot & M. Cáceres 2016b); AM (Cáceres & Aptroot 2017);

AP (Cáceres & Aptroot 2016).

Previous report: Cáceres & Aptroot (2017).

Astrothelium tuberculosum (Vain.) Aptroot & Lücking, *Lichenologist* 48(6): 893 (2016)

≡ *Pseudopyrenula annularis* var. *tuberculosa* Vain. 1915

Distribution in Brazil: AM (Harris 1986); SE (Cáceres & al. 2014); SP (Aptroot & Lücking 2016);

Previous report: Cáceres & Aptroot (2017).

Astrothelium valsoides M. Cáceres & Aptroot, *Bryologist* 120(2): 174 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Astrothelium variolosum (Ach.) Müll. Arg., *Flora, Regensburg* 68(12): 255 (1885)

≡ *Trypethelium variolosum* Ach. 1814

Distribution in Brazil: MT, RJ (Malme 1924); PA (Müller 1884); MG, RR (Harris 1986);

AL (Cáceres 2007); PE (Lima 2013); RS (Käffer & al. 2015); RO, SE (Cáceres & al. 2014);

AM (Cáceres & Aptroot 2017); SP (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium versicolor Müll. Arg., *Flora, Regensburg* 71: 495 (1888)

Distribution in Brazil: AM (Harris 1986); RO, SE (Cáceres & al. 2014); MG, RS (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Astrothelium zebrinum Aptroot, in Aptroot, Ertz, Etayo Salazar, Gueidan, Mercado Diaz, Schumm & Weerakoon, *Lichenologist* 48(6): 633 (2016)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Bacidina lacerata (Timdal) Kistenich, Timdal, Bendiksby & S. Ekman, *Taxon* 67(5): 889 (2018)
 ≡ *Phyllopsora lacerata* Timdal 2008
 Geographical record: New to Brazil.
 Examined material: ISE (28412)

Bacidina pseudohyphophorifera (Lücking & Sérus.) Lücking, *Fl. Neotrop.*, Monogr. 103: 607 (2008)
 ≡ *Woessia pseudohyphophorifera* Lücking & Sérus., in Sérusiaux 1995
 Distribution in Brazil: PE (Lücking 2008); PA (Lücking & Cáceres 2002);
 AM (Cáceres & Aptroot 2017); MS (Aptroot & Spielmann 2020).
 Previous report: Cáceres & Aptroot (2017).

Bacidiospora silvicola (Malme) Kalb, *Bibliotheca Lichenol.* 88: 305 (2004)
 Basionym: *Bacidia silvicola* Malme 1935
 Distribution in Brazil: MT, SP (Kalb 2004); RS (Käffer & al. 2015);
 RO (Aptroot & Cáceres 2014d); AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Bulbothrix lyngei Benatti & Marcelli, in Benatti, *Fungal Diversity* 2(4): 257 (2011)
 Distribution in Brazil: SP (Benatti 2011).
 Geographical record: New to Amazonas.
 Examined material: ISE (50789).

Canoparmelia amazonica (Nyl.) Elix & Hale, in Elix, Johnston & Verdon, *Mycotaxon* 27: 278 (1986)
 ≡ *Parmelia amazonica* Nyl. 1885
 Distribution in Brazil: AM, MG, MT, MS, SP (Hale 1976); PA (Brako & al. 1985);
 PR (Eliasaro 2001); SE (Cáceres & al. 2014); RO (Aptroot & Cáceres 2014d);
 AP (Cáceres & Aptroot 2016); TO (Aptroot & al. 2017).
 Previous report: Cáceres & Aptroot (2017).

Carbacanthographis chionophora (Redinger) Staiger & Kalb, in Staiger, *Bibliotheca Lichenol.* 85: 105 (2002)
 ≡ *Graphis chionophora* Redinger 1935
 Distribution in Brazil: MT, PB (Staiger 2002); PA (Cengia Sambo 1940); RO (Cáceres & al. 2014a);
 SE (Cáceres & al. 2014); BA (Cáceres & al. 2016); AM (Cáceres & Aptroot 2017); MA (Aptroot &
 al. 2017).
 Previous report: Cáceres & Aptroot (2017).

Carbacanthographis inspersa Staiger, *Bibliotheca Lichenol.* 85: 107 (2002)
 Distribution in Brazil: SP (Staiger 2002).
 Geographical record: New to Amazonas.
 Examined material: ISE (28329).

Carbacanthographis marcescens (Fée) Staiger & Kalb, in Staiger, *Bibliotheca Lichenol.* 85: 109 (2002)
 ≡ *Graphis marcescens* Fée 1825
 Distribution in Brazil: AM, MT (Staiger & Kalb 1999); RJ (Krempelhuber 1876); BA (Müller 1888);
 MG (Aptroot 2002); SE (Cáceres 2007); RO (Cáceres & al. 2014a); AP (Cáceres & Aptroot 2016);
 PA (Aptroot & al. 2017); PB, PE, PR, RN, SP (Menezes & al. 2018).
 Previous report: Cáceres & Aptroot (2017).

Carbacanthographis stictica Staiger & Kalb, in Staiger, *Bibliotheca Lichenol.* 85: 111 (2002)
 Distribution in Brazil: AM (Staiger 2002); RO (Cáceres & al. 2014a); SE (Cáceres & al. 2014);
 AP (Cáceres & Aptroot 2016); MA, TO (Aptroot & al. 2017).
 Previous report: Cáceres & Aptroot (2017).

Chapsa dissuta (Hale) Mangold, in Mangold, Elix & Lumbsch, in McCarthy (Ed.), Flora of Australia, Vol. 57. Lichens 5 (Melbourne): 653 (2009)

≡ *Ocellularia dissuta* Hale 1978

Distribution in Brazil: AP (Cáceres & Aptroot 2016).

Geographical record: New to Amazonas.

Examined material: ISE (28235).

Chapsa referta (Hale) Lücking, in Sipman, Lücking, Aptroot, Chaves, Kalb & Umaña Tenorio, Phytotaxa 55: 47 (2012)

≡ *Ocellularia referta* Hale 1978

Distribution in Brazil: AM (Lücking 2015).

Previous report: Cáceres & Aptroot (2017).

Chapsa thalotrema Lücking & N. Salazar, in Lumbsch & al., Phytotaxa 18: 39 (2011)

Distribution in Brazil: RO (Cáceres & al. 2014a); SE (Cáceres & al. 2014); CE (Alves 2014);

AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017);

BA (Menezes & al. 2018); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Chiodecton complexum Aptroot & M. Cáceres, Lichenologist 46(4): 576 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014b); CE (Alves 2014); SE (Cáceres & al. 2014);

AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017).

Chiodecton lichexanthonicum M. Cáceres & Aptroot, Bryologist 120(2): 177 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Chiodecton sphaerale Ach., Syn. meth. lich. (Lund): 108 (1814)

Distribution in Brazil: MT, RJ, RS, SP (Malme 1937); BA, SC (Thor 1990); MG (Aptroot 2002);

CE (Menezes 2013); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Chrysothrix xanthina (Vain.) Kalb, Bibliotheca Lichenol. 78: 144 (2001)

≡ *Lepraria xanthina* Vain., in Hiern 1901

Distribution in Brazil: AL, BA, CE, MT, MS, RS (Kalb 2001); PE (Lima 2013); PB (Xavier-Leite

2013; Xavier-Leite & al. 2015); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AP (Cáceres &

Aptroot 2016); MA, TO (Aptroot & al. 2017).

Geographical record: New to Amazonas.

Examined material: ISE (50630).

Cladonia subradiata (Vain.) Sandst., Abh. naturw. Ver. Bremen 25: 230 (1922)

≡ *Cladonia fimbriata* var. *subradiata* Vain. 1894

Distribution in Brazil: AC, AM, BA, DF, ES, MG, MT, MS, PA, PB, PE, PR, RJ, RO, RR, RS, SE,

SP (Ahti 2000); MA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Coccocarpia erythroxyli (Spreng.) Swinscow & Krog [as '*erythroxyli*'], Norw. J. Bot. 23: 254 (1976)

≡ *Lecidea erythroxyli* Spreng. 1820

Distribution in Brazil: AM, BA, MA, MG, MT, PA, PE, RJ, SC, SP (Arvidsson 1982); PR (Osorio

1977); MS (Osorio 1992); RS (Spielmann 2006); SE (Cáceres & al. 2014); RO (Aptroot & Cáceres

2014d); AP (Cáceres & Aptroot 2016).

Previous report: Cáceres & Aptroot (2017).

Coccocarpia palmicola (Spreng.) Arv. & D.J. Galloway, Bot. Notiser 132(2): 242 (1979)

≡ *Lecidea palmicola* Spreng. 1820

Distribution in Brazil: AM, BA, MA, MT, PA, PE, RJ, SC, SP (Arvidsson 1982); MS (Kalb 1983); MG (Aptroot 2002); AL (Pereira & al. 2005); RS (Spielmann 2006); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016).

Previous report: Cáceres & Aptroot (2017).

Coccocarpia pellita (Ach.) Müll. Arg., Flora, Regensburg 65: 320 (1882)

≡ *Parmelia pellita* Ach. 1810

Distribution in Brazil: AM, MG, MT, PA, RJ, SC, SP (Arvidsson 1982); BA (Marcelli (1992); PE (Pereira & al. 2005); RS (Spielmann 2006); RO (Aptroot & Cáceres 2014d); AP (Cáceres & Aptroot 2016);

Previous report: Cáceres & Aptroot (2017).

Coccocarpia prostrata Lücking, Aptroot & Sipman, in Lücking, Aptroot, Chaves, Sipman & Umaña, Bibliotheca Lichenol. 95: 449 (2007)

Distribution in Brazil: MG, SP (Lücking & al. 2007); CE (Alves 2014); RO (Aptroot & Cáceres 2014d); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); RS (Luchete & al. 2018); BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017).

Coenogonium barbatellum Kalb, Bibliotheca Lichenol. 95: 303 (2007)

Distribution in Brazil: SE (Cáceres 2007); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Coenogonium chloroticum Xavier-Leite, M. Cáceres & Aptroot, Nova Hedwigia 98(1–2): 198 (2013) [“2014”]

Distribution in Brazil: PB (Xavier-Leite & al. 2014b); CE (Alves 2014); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); MA (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Coenogonium leprieurii (Mont.) Nyl., Anns Sci. Nat., Bot., sér. 4 16: 89, pl. 12, fig. 15–19 (1862)

≡ *Coenogonium linkii* var. *leprieurii* Mont. 1851

Distribution in Brazil: PE (Lücking 2008); AM (Leighton 1866); MG (Vainio 1890); SC (Müller 1891a); PA (Zahlbruckner 1909); RJ (Malme 1937); PR (Xavier Filho & al. 1983); MT (Kalb 2001); RS (Spielmann 2006); AL, BA (Cáceres 2007); CE (Alves 2014); RO (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016).

Previous report: Cáceres & Aptroot (2017).

Coenogonium linkii Ehrenb., in Nees von Esenbeck (Ed.), Horae Phys. Berol.: 120, tab. 27 (1820)

Distribution in Brazil: AM, PE (Lücking 2008); PA, RJ, SC (Cengia Sambo 1940); SP (Kalb 1982c); MG (Aptroot 2002); RS (Spielmann 2006); AL, SE (Cáceres 2007); RO (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); BA (Santos & al. 2016); MA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Coenogonium strigosum Rivas Plata, Lücking & Chaves, in Rivas Plata, Lücking, Aptroot, Sipman, Chaves, Umaña & Lizano, Fungal Diversity 23: 290 (2006)

Distribution in Brazil: AL, PE, SE (Cáceres 2007); AP (Cáceres & Aptroot 2016);

AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Coniarthonia megaspora Aptroot, C. Mendonça & M. Cáceres, in Aptroot, Ertz, Silva, Grube & Cáceres, *Phytotaxa* 218(2): 130 (2015)

Distribution in Brazil: SE (Aptroot & al. 2015).

Geographical record: New to Amazonas.

Examined material: ISE (50758).

Coniarthonia rosea Aptroot & M. Cáceres, *Lichenologist* 46(4): 578 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014b); AP (Cáceres & Aptroot 2016);

AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Cresponea flavosorediata Aptroot & M. Cáceres, *Lichenologist* 46(4): 578 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014b); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Crypthonia albida (Fée) Frisch & G. Thor, *Mycol. Progr.* 9(2): 290 (2010)

≡ *Hypochnus albidus* Fée 1837

Distribution in Brazil: AL, PE (Aptroot & al. 2009); SE (Cáceres & al. 2014);

AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Cryptothecia fabispora M. Cáceres, E.L. Lima & Aptroot, *Lichenologist* 45(3): 362 (2013)

Distribution in Brazil: PA, SE (Lima & al. 2013b); RO (Cáceres & al. 2014b); BA (Cáceres & al. 2016); AM (Cáceres & Aptroot 2017); TO (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Cryptothecia lichexanthonica E.L. Lima, Aptroot & M. Cáceres, *Lichenologist* 45(3): 362 (2013)

Distribution in Brazil: PE (Lima & al. 2013b); RO (Cáceres & al. 2014b); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); TO (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Cryptothecia striata G. Thor, *Bryologist* 94: 278 (1991)

Distribution in Brazil: AL, PE (Cáceres 2007); RS (Martins & Marcelli 2007); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); PA, TO (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Dichosporidium sorediatum G. Thor, *Op. bot.* 103: 74 (1991)

Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Diorygma alagoense M. Cáceres & Lücking, in Cáceres, *Libri Botanici* 22: 67 (2007)

Distribution in Brazil: AL (Cáceres 2007); PB, PE (Lima & al. 2019).

Geographical record: New to Amazonas.

Examined material: ISE (50811).

Diorygma antillarum (Vain.) Nelsen, Lücking & Rivas Plata, *Bryologist* 115(2): 318 (2012)

≡ *Chiodecton antillarum* Vain. 1915

Distribution in Brazil: MG, RJ (Aptroot & al. 2009); RS (Käffer & al. 2015);

AM (Cáceres & Aptroot 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Diorygma confluens (Fée) Kalb, Staiger & Elix, Symb. bot. upsal. 34(no. 1): 146 (2004)
 ≡ *Arthonia confluens* Fée 1825

Distribution in Brazil: AM, CE, ES, MT, RJ, SP (Kalb & al. 2004); RO (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); PA, TO (Aptroot & al. 2017); PE (Menezes & al. 2018).
 Previous report: Cáceres & Aptroot (2017).

Diorygma hieroglyphicum (Pers.) Staiger & Kalb, in Kalb & al., Symb. bot. upsal. 34(no. 1): 151 (2004)
 ≡ *Opegrapha hieroglyphica* Pers. 1811

Distribution in Brazil: RJ (Kalb & al. 2004); MT (Redinger 1934); SP (Kalb 1984); RS (Spielmann 2006); SE (Cáceres 2007); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PR (Menezes & al. 2018);
 Previous report: Cáceres & Aptroot (2017).

Diorygma junghuhnii (Mont. & Bosch) Kalb, Staiger & Elix, Symb. bot. upsal. 34(no. 1): 157 (2004)
 ≡ *Graphis junghuhnii* Mont. & Bosch 1856

Distribution in Brazil: MT, MS (Kalb & al. 2004); MG (Aptroot 2002); RO, SE (Cáceres & al. 2014).
 Geographical record: New to Amazonas.
 Examined material: ISE (28131).

Diorygma reniforme (Fée) Kalb, Staiger & Elix, Symb. bot. upsal. 34(no. 1): 167 (2004)
 ≡ *Graphis reniformis* Fée 1825

Distribution in Brazil: SP, PR (Kalb & al. 2004); BA (Müller 1888); MT (Redinger 1934); PE (Cáceres 2007); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); MS (Aptroot & Spielmann 2020).
 Geographical record: New to Amazonas.
 Examined material: ISE (50810).

Dyplolabia afzelii (Ach.) A. Massal., Neogenea Lich.: 6 (1854)
 ≡ *Graphis afzelii* Ach. 1814

Distribution in Brazil: BA, MS, MT, RJ, SP (Kalb 2000); PA (Zahlbruckner 1909); AL, SE (Cáceres 2007); PR (Dal-Forno 2009); CE (Menezes 2013); PE (Lima 2013); RO (Cáceres & al. 2014a); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); MA, TO (Aptroot & al. 2017); PB, SC (Menezes & al. 2018).
 Previous report: Cáceres & Aptroot (2017).

Enterographa lichexanthonica M. Cáceres & Aptroot, Bryologist 120(2): 177 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Erythrodocton granulatum (Mont.) G. Thor, Op. bot. 103: 76 (1991)
 ≡ *Sagedia granulata* Mont. 1851

Distribution in Brazil: AM (Thor 1990); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016).
 Previous report: Cáceres & Aptroot (2017).

Eschatogonia angustiloba Timdal, Lichenologist 40(1): 32 (2008)

Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).
 Previous report: Cáceres & Aptroot (2017).

Eschatogonia dissecta Timdal & R. Sant., in Timdal, Lichenologist 40(1): 34 (2008)

Distribution in Brazil: MT (Kalb & al. 2012); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017); AP (Cáceres & Aptroot 2016); PA (Aptroot & al. 2017).
 Previous report: Cáceres & Aptroot (2017).

Eschatogonia prolifera (Mont.) R. Sant.

≡ *Biatora prolifera* Mont. 1851

Distribution in Brazil: AM (Kalb & al. 2012); RO (Aptroot & Cáceres 2014d); AP (Cáceres & Aptroot 2016); PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Fissurina amazonica M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot, Parmen & Lücking, *Phytotaxa* 189(1): 93 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017);

PA, TO (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Flegographa leprieurii (Mont.) A. Massal., *Atti Inst. Veneto Sci. lett., ed Arti, Sér. 3 5*: 314 (1860) [“1859–1860”]

≡ *Opegrapha leprieurii* Mont. 1837

Distribution in Brazil: AM (Staiger 2002); PA (Leighton 1866); RO (Cáceres & al. 2014a);

SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016).

Previous report: Cáceres & Aptroot (2017).

Gassicurtia coccinea Fée, *Essai Crypt. Exot. (Paris)*: 100 (1825) [“1824”]

Distribution in Brazil: BA, MG, MT, SP (Marbach 2000); RS (Spielmann 2006); CE (Menezes 2013);

SE (Cáceres & al. 2014); RO (Aptroot & Cáceres 2014d); AM (Cáceres & Aptroot 2017);

MA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Glaucotrema glaucophaenum (Kremp.) Rivas Plata & Lumbsch, in Rivas Plata, Lücking & Lumbsch, *Taxon* 61(6): 1175 (2012)

≡ *Thelotrema glaucophaenum* Kremp. 1875

Distribution in Brazil: MT, SP (Frisch 2006); SE (Cáceres 2007); RO (Cáceres & al. 2014a);

PB (Menezes & al. 2018).

Geographical record: New to Amazonas.

Examined material: ISE (50763).

Graphis cremicolor (H. Magn.) Lücking & A.W. Archer, in Lücking, Archer & Aptroot, *Lichenologist* 41(4): 436 (2009)

≡ *Graphina cremicolor* H. Magn. 1955

Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Graphis cupei Vain. ex Lücking, in Lücking, Archer & Aptroot, *Lichenologist* 41(4): 436 (2009)

Distribution in Brazil: CE (Menezes 2013); AM (Cáceres & Aptroot 2017);

PR, SE (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Graphis fumosa Müll. Arg., *Hedwigia* 30: 184 (1891)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Graphis glaucescens Fée, *Essai Crypt. Exot. (Paris)*: 36, tab. VIII, fig. 3 (1825) [“1824”]

Distribution in Brazil: CE (Menezes 2013); MG, RJ (Vainio 1890); PA (Zahlbruckner 1909);

BA (Redinger 1935); SP (Marcelli 1992); MT (Staiger 2002); AL, RN (Cáceres 2007);

SE (Rodrigues 2012); PE (Lima 2013); PB (Xavier-Leite 2013; Xavier-Leite & al. 2015);

RO (Cáceres & al. 2014a); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017);

MA, TO (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Graphis immersicans A.W. Archer, Aust. Syst. Bot. 14(2): 262 (2001)

Distribution in Brazil: PE (Lima 2013); CE (Menezes 2013); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Graphis pernambucoradians M. Cáceres & Lücking, in Cáceres, Libri Botanici 22: 86 (2007)

Distribution in Brazil: PE (Cáceres 2007); RO (Cáceres & al. 2014a); AP (Cáceres & Aptroot 2016); BA (Cáceres & al. 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017); SE (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Graphis puiggarii (Müll. Arg.) Lücking, in Lücking, Chaves, Sipman, Umaña & Aptroot, Fieldiana, Bot. 46(no. 1549): 102 (2008)

≡ *Graphina puiggarii* Müll. Arg. 1880

Distribution in Brazil: BA, RJ, SP (Marcelli 1992); MS, MT (Redinger 1934); RS (Käffer & al. 2015).

Geographical record: New to Amazonas.

Examined material: ISE (28292).

Graphis stellata M. Cáceres & Lücking, in Cáceres, Libri Botanici 22: 87 (2007)

Distribution in Brazil: SE (Cáceres 2007); RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017); BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017).

Graphis stipitata A.W. Archer, Mycotaxon 80: 368 (2001)

Distribution in Brazil: CE (Menezes 2013); SE (Rodrigues 2012); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Gyrotrema flavum M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot, Parmen & Lücking, Phytotaxa 189: 102 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017);

Previous report: Cáceres & Aptroot (2017).

Gyrotrema sinuosum (Sipman) Frisch, in Frisch & Kalb, Bibliotheca Lichenol. 92: 380 (2006)

≡ *Ocellularia sinuosa* Sipman 1992

Distribution in Brazil: AM (Frisch & Kalb 2006); RO (Cáceres & al. 2014a);

Previous report: Cáceres & Aptroot (2017).

Herpothallon aurantiacoflavum (B. de Lesd.) Aptroot, Lücking & G. Thor, in Aptroot, Thor, Lücking, Elix & Chaves, Bibliotheca Lichenol. 99: 31 (2009)

≡ *Chiodecton aurantiacoflavum* B. de Lesd. 1934

Distribution in Brazil: PE (Aptroot & al. 2009); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); BA (Cáceres & al. 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Herpothallon rubromaculatum G. Thor, in Aptroot, Thor, Lücking, Elix & Chaves, Bibliotheca Lichenol. 99: 63 (2009)

Distribution in Brazil: RO (Cáceres & al. 2014b); AM (Cáceres & Aptroot 2017);

PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Leptogium corticola (Taylor) Tuck., in Lea, Cat. Pl. Cincinnati: 47 (1849)

≡ *Collema corticola* Taylor 1847

Distribution in Brazil: SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016);

AM (Cáceres & Aptroot 2017); RS (Kitaura & al. 2019); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Leucodecton occultum (Eschw.) Frisch, *Bibliotheca Lichenol.* 92: 157 (2006)

≡ *Thelotrema occultum* Eschw., in Martius 1833

Distribution in Brazil: AM, MS, MT, RJ (Redinger 1936); AL (Menezes & al. 2011);

SE (Rodrigues 2012); PE (Lima 2013); PB (Xavier-Leite 2013; Xavier-Leite & al. 2015);

CE (Cáceres & al. 2017a); BA (Aptroot & Cáceres 2018).

Examined material: ISE (50683).

Malmidea amazonica (Redinger) Kalb, Rivas Plata & Lumbsch, in Kalb, Rivas Plata, Lücking & Lumbsch, *Bibliotheca Lichenol.* 106: 164 (2011)

≡ *Lecidea amazonica* Redinger 1933

Distribution in Brazil: (Redinger 1933); AM (Lücking & Kalb 2000); PA (Lücking 2008);

RO (Cáceres & al. 2014).

Previous report: Cáceres & Aptroot (2017).

Malmidea coralliformis Kalb, in Kalb, Rivas Plata, Lücking & Lumbsch, *Bibliotheca Lichenol.* 106: 157 (2011)

Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Malmidea flavopustulosa (M. Cáceres & Lücking) M. Cáceres & Kalb, in Kalb, Rivas Plata, Lücking & Lumbsch, *Bibliotheca Lichenol.* 106: 165 (2011)

≡ *Malcolmiella flavopustulosa* M. Cáceres & Lücking, in Cáceres, (2007)

Distribution in Brazil: AL, PE (Cáceres 2007); CE (Alves 2014); RS (Käffer & al. 2015);

AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); BA (Aptroot & Cáceres 2018);

MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Malmidea furfurosa (Tuck. ex Nyl.) Kalb & Lücking, in Kalb, Rivas Plata, Lücking & Lumbsch, *Bibliotheca Lichenol.* 106: 165 (2011)

≡ *Lecidea furfurosa* Tuck. ex Nyl., in Nylander 1863

Distribution in Brazil: PB (Xavier-Leite 2013; Xavier-Leite & al. 2015); SE (Cáceres 2007);

PE (Cáceres 2007); RO (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017); PA (Aptroot & al.

2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Malmidea granifera (Ach.) Kalb, Rivas Plata & Lumbsch, in Kalb, Rivas Plata, Lücking & Lumbsch, *Bibliotheca Lichenol.* 106: 165 (2011)

≡ *Lecanora granifera* Ach. 1814

Distribution in Brazil: MT, RJ (Malme 1936a); MS (Kalb 1982b); AM (Lücking & Kalb 2000);

AL, PE, RN, SE (Cáceres 2007); CE (Alves 2014); RO (Cáceres & al. 2014); PB (Xavier-Leite 2013;

Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016).

Previous report: Cáceres & Aptroot (2017).

Malmidea leptoloma (Müll. Arg.) Kalb & Lücking, in Kalb, Rivas Plata, Lücking & Lumbsch, *Bibliotheca Lichenol.* 106: 165 (2011)

≡ *Lecidea leptoloma* Müll. Arg. 1881

Distribution in Brazil: PE (Lima 2013); RS (Malme 1936a); AL, SE (Cáceres 2007);

PB (Xavier-Leite 2013; Xavier-Leite & al. 2015); CE (Alves 2014); RO (Cáceres & al. 2014);

AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Malmidea papillosa Weerakoon & Aptroot, *Cryptog. Mycol.* 35(1): 60 (2014)
Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017);
TO (Aptroot & al. 2017); BA (Aptroot & Cáceres 2018).
Previous report: Cáceres & Aptroot (2017).

Malmidea piperina (Zahlbr.) Aptroot & Breuss, *Lichenologist* 47(1): 19 (2015)
≡ *Lecidea piperina* Zahlbr. 1933
Distribution in Brazil: RO (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016);
AM (Cáceres & Aptroot 2017); PA, TO (Aptroot & al. 2017).
Previous report: Cáceres & Aptroot (2017).

Malmidea rhodopsis (Tuck.) Kalb, Rivas Plata & Lumbsch, in Kalb, Rivas Plata, Lücking &
Lumbsch, *Bibliotheca Lichenol.* 106: 165 (2011)
≡ *Biatora rhodopsis* Tuck. 1859
Distribution in Brazil: RJ (Vainio 1890); AM (Cáceres & Aptroot 2017); TO (Aptroot & al. 2017);
MS (Aptroot & Spielmann (2020)).
Previous report: Cáceres & Aptroot (2017).

Malmographina plicosa (C.F.W. Meissn.) M. Cáceres, Rivas Plata & Lücking, *Lichenologist* 44(1):
118 (2011) ["2012"]
≡ *Opegrapha plicosa* C.F.W. Meissn. 1855
Distribution in Brazil: MT (Staiger 2002); SE (Cáceres & al. 2014); BA (Cáceres & al. 2016);
AM (Cáceres & Aptroot 2017); RO (Cáceres & al. 2014a); MA (Aptroot & al. 2017);
Previous report: Cáceres & Aptroot (2017).

Mazaediothecium album Aptroot, *Bibliotheca Lichenol.* 44: 73 (1991)
Distribution in Brazil: AM (Cáceres & Aptroot 2017).
Previous report: Cáceres & Aptroot (2017).

Melanotrema platystomum (Mont.) Frisch, in Frisch & Kalb, *Bibliotheca Lichenol.* 92: 397 (2006)
≡ *Thelotrema platystomum* Mont. 1843
Distribution in Brazil: ES, MG, MT, SP (Frisch & Kalb 2006); SE (Cáceres & al. 2014);
AM (Cáceres & Aptroot 2017); BA, RR (Lücking 2015); AP (Cáceres & Aptroot 2016);
PB, PE (Menezes & al. 2018); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Micarea corallothallina M. Cáceres, D.A. Mota & Aptroot, *Lichenologist* 45(3): 372 (2013)
Distribution in Brazil: BA (Cáceres & al. 2013); AP (Cáceres & Aptroot 2016);
AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).
Previous report: Cáceres & Aptroot (2017).

Micarea denigrata (Fr.) Hedl., *Bih. K. svenska VetenskAkad. Handl., Afd. 3* 18(no. 3): 78 (1892)
≡ *Biatora denigrata* Fr. 1822
Geographical record: New to Brazil.
Examined material: ISE (50804).

Micarea peliocarpa (Anzi) Coppins & R. Sant., in Coppins & James, *Lichenologist* 11(2): 155 (1979)
≡ *Bilimbia peliocarpa* Anzi 1866
Distribution in Brazil: MG (Aptroot 2002); AP (Cáceres & Aptroot 2016).
Geographical record: New to Amazonas.
Examined material: ISE (50717).

Micarea prasina Fr., Syst. orb. veg. (Lundae) 1: 256 (1825)

Distribution in Brazil: RS (Spielmann 2006); SP (Kalb 1986); MG (Aptroot 2002); AP (Cáceres & Aptroot 2016).

Geographical record: New to Amazonas.

Examined material: ISE (50714).

Micarea stipitata Coppins & P. James, Lichenologist 11(2): 156 (1979)

Distribution in Brazil: SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Milospium graphideorum (Nyl.) D. Hawksw., Trans. Br. mycol. Soc. 65(2): 228 (1975)

≡ *Spilomium graphideorum* Nyl. 1857

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Mycoporum compositum (A. Massal.) R.C. Harris, in Egan, Bryologist 90(2): 164 (1987)

≡ *Bottaria composita* A. Massal. 1856

Distribution in Brazil: CE (Menezes 2013); MG, RJ (Vainio 1890); PE (Lima 2013);

SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017); TO (Aptroot & al. 2017);

BA (Aptroot & Cáceres 2018); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Mycoporum eschweileri (Müll. Arg.) R.C. Harris,

More Florida Lichens, Incl. 10 Cent Tour Pyrenol. (New York): 69 (1995)

≡ *Mycoporellum eschweileri* Müll. Arg. 1889

Distribution in Brazil: PB (Xavier-Leite 2013; Xavier-Leite & al. 2015); BA (Harris 1995);

RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017);

MA, PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Myeloconis fecunda P.M. McCarthy & Elix, Lichenologist 28(5): 409 (1996)

Distribution in Brazil: MG (Aptroot 2002); AP (Cáceres & Aptroot 2016);

AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Myeloconis guyanensis P.M. McCarthy & Elix, Lichenologist 28(5): 411 (1996)

Distribution in Brazil: PE (Cáceres 2007); RR (Moreira de Barros & Xavier Filho 1972);

RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Myeloconis parva P.M. McCarthy & Elix, Lichenologist 28(5): 412 (1996)

Distribution in Brazil: AM (McCarthy & Elix 1996); RO (Aptroot & Cáceres 2014).

Previous report: Cáceres & Aptroot (2017).

Myriostigma miniatum (Vain. ex Lücking) Aptroot, Ertz, Grube & M. Cáceres, in Aptroot, Ertz, Silva, Grube & Cáceres, Phytotaxa 218(2): 131 (2015)

≡ *Cryptothecia miniata* Vain. ex Lücking, (2011)

Distribution in Brazil: RJ, SE (Aptroot & al. 2015); TO (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Examined material: ISE (28608).

Myriotrema album Fée, Essai Crypt. Exot. (Paris): 104 (1825) [“1824”]

Distribution in Brazil: MG, RJ, SP (Redinger 1936); RO (Cáceres & al. 2014).

Geographical record: New to Amazonas.

Examined material: ISE (28143).

Myriotrema neofrondosum Sipman, Trop. Bryol. 5: 85 (1992)

Distribution in Brazil: RO, SE (Cáceres & al. 2014); PA (Aptroot & al. 2017).

Geographical record: New to Amazonas.

Examined material: ISE (50756).

Neosergipea septoconidiata Aptroot & M. Cáceres, Lichenologist 49(6): 611 (2017)

Distribution in Brazil: AM, AP, PA (Aptroot & Cáceres 2017).

Previous report: Cáceres & Aptroot (2017).

Ocellularia antillensis Hale, Smithson. Contr. bot. 16: 17 (1974)

Distribution in Brazil: BA (Aptroot & Cáceres 2018).

Geographical record: New to Amazonas.

Examined material: ISE (50733).

Ocellularia cavata (Ach.) Müll. Arg., Flora, Regensburg 65: 499 (1882)

≡ *Thelotrema cavatum* Ach. 1812

Distribution in Brazil: AM, ES, MG, MS, MT, RJ, SP (Redinger 1936); PA (Müller 1888);

PE (Cáceres 2007); CE (Menezes 2013); RO (Cáceres & al. 2014a); SE (Cáceres & al. 2014); PB, PR (Menezes & al. 2018); BA (Aptroot & Cáceres 2018).

Examined material: ISE (28187).

Ocellularia crocea (Kremp.) Overeem & D. Overeem, Bull. Jard. bot. Buitenz, 3 Sér. 4(1): 118 (1922)

≡ *Ascidium croceum* Kremp. 1875

Distribution in Brazil: PE (Cáceres 2007); SE (Cáceres & al. 2014); AM (Lücking 2015);

PB (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Ocellularia guianensis (Sipman) Divakar & Mangold, in Papong, Boonpragob, Mangold, Divakar & Lumbsch, Lichenologist 42(2): 134 (2010)

≡ *Myriotrema guianense* Sipman 1992

Distribution in Brazil: AM, PA (Frisch & Kalb 2006); RO (Cáceres & al. 2014a).

Examined material: ISE (28353)

Ocellularia pluriporoides Homchant. & Coppins, Lichenologist 34(2): 127 (2002)

Geographical record: New to Brazil.

Examined material: ISE (50664).

Ocellularia pseudochapsa M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot, Parmen & Lücking, Phytotaxa 189(1): 114 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Ocellularia rhodostroma (Mont.) Zahlbr., Cat. Lich. Univers. 2: 600 (1923) [“1924”]

≡ *Ascidium rhodostroma* Mont. 1851

Distribution in Brazil: AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Ocellularia soralifera Kalb, Herzogia 22: 36 (2009)

Distribution in Brazil: AM (Kalb 2009).

Examined material: ISE (50800).

Opegrapha cylindrica Raddi, Mem. mat. fis. Soc. ital. Sci. 18: 344 (1820)

Distribution in Brazil: RJ (Redinger 1940); MG (Vainio 1890); MS (Kalb 1986); SE (Cáceres 2007); PE (Lima 2013); CE (Alves 2014); PB (Xavier-Leite 2013; Xavier-Leite & al. 2015).

Previous report: Cáceres & Aptroot (2017).

Opegrapha malmei Redinger (1940)

Distribution in Brazil: AM (Cáceres & Aptroot 2017)

Previous report: Cáceres & Aptroot (2017).

Opegrapha multiseptata Müll. Arg., Flora, Regensburg 63: 43 (1880)

Distribution in Brazil: BA, MT, MS, SP, RS (Redinger 1940); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Opegrapha trilocularis Müll. Arg., Bull. Herb. Boissier 1: 132 (1893)

Distribution in Brazil: MG (Aptroot 2002); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Opegrapha urosperma Fée, Bull. Soc. bot. Fr. 21: 24 (1873)

Distribution in Brazil: MT, RJ (Redinger 1940); PE, AL (Cáceres 2007); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Parmotrema cristiferum (Taylor) Hale, Phytologia 28(4): 335 (1974)≡ *Parmelia cristifera* Taylor 1847

Distribution in Brazil: SP (Marcelli 1992); AM, MG (Moreira de Barros & Xavier Filho 1972); PR (Eliasaro & Donha 2003); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016).

Examined material: ISE (50784)

Parmotrema dilatatum (Vain.) Hale, Phytologia 28(4): 335 (1974)≡ *Parmelia dilatata* Vain. 1890

Distribution in Brazil: SC, SP (Marcelli 1992); AM, MG (Moreira de Barros & Xavier Filho 1972); PA (Brako & al. 1985); MS (Osorio 1992); PR (Eliasaro 2001); MG (Aptroot 2002); PE, AL (Pereira & al. 2005); RS (Spielmann 2006); SE (Cáceres & al. 2014); RO (Aptroot & Cáceres 2014d); RJ (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Phaeographis caesiodisca Staiger, Bibliotheca Lichenol. 85: 319 (2002)

Distribution in Brazil: MT, SP (Staiger 2002); PE (Lima 2013); CE (Alves 2014);

SE (Cáceres & al. 2014); MS (Aptroot & Spielmann).

Previous report: Cáceres & Aptroot (2017).

Phaeographis leiogrammodes (Kremp.) Müll. Arg., Nuovo G. bot. ital. 23(3): 397 (1891)≡ *Graphis leiogrammodes* Kremp. 1873

Distribution in Brazil: MG, MS, MT, SP (Staiger 2002); PE (Lima 2013); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017); MA, PA, TO (Aptroot & al. 2017); PB (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Phaeographis neotricosa Redinger, Ark. Bot. 27A (no. 3): 93 (1935)

Distribution in Brazil: CE (Menezes 2013); MS (Redinger 1935); SP (Marcelli 1992);

MT (Kalb 2001); PE (Lima 2013); SE (Cáceres & al. 2014 c); PB (Xavier-Leite & al. 2015);

BA (Cáceres & al. 2016).

Geographical record: New to Amazonas.
Examined material: ISE (50755)

Phaeographis nylanderii (Vain.) Zahlbr., Cat. Lich. Univers. 2: 382 (1923) [“1924”]
≡ *Graphis nylanderii* Vain. 1909

Distribution in Brazil: PE (Cáceres 2007); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017); BA (Aptroot & Cáceres 2018); PB (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Phyllopsora chodatunica Elix, Australas. Lichenol. 59: 23 (2006)

Geographical record: New to Brazil.

Examined material: ISE (28180)

Phyllopsora cinchonarum (Fée) Timdal, Lichenologist 40(4): 346 (2008)

≡ *Triclinum cinchonarum* Fée 1825

Distribution in Brazil: AC, AM, MG, PA, RJ, SP (Brako 1989); MS, RS (Malme 1937); AL (Cáceres 2007); RO (Aptroot & Cáceres 2014d); MA, TO (Aptroot & al. 2017); BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017, as *Triclinum cinchonarum*)

Phyllopsora furfuracea (Pers.) Zahlbr., in Engler & Prantl, Nat. Pflanzenfam., Teil. I (Leipzig) 1(1*): 138 (1905)

≡ *Lecidea furfuracea* Pers., in Gaudichaud-Beaupré in Freycinet 1827

Distribution in Brazil: AC, MG, MT, PA, PR, RJ, RR, RS, SC, SP (Brako 1991); AL, PE (Cáceres 2007); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); RO (Aptroot & Cáceres 2014d).

Previous report: Cáceres & Aptroot (2017).

Phyllopsora nigrocincta Timdal, Lichenologist 40(4): 354 (2008)

Distribution in Brazil: RO (Aptroot & Cáceres 2014d); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Phyllopsora pyxinoides (Nyl.) Kistenich, Timdal, Bendiksby & S. Ekman, Taxon 67(5): 894 (2018)

≡ *Crocynia pyxinoides* Nyl. 1891

Distribution in Brazil: MT (Malme 1937); MG, RJ (Kalb 1982a); AL (Cáceres 2007); CE (Alves 2014); SE (Cáceres & al. 2014); RO (Aptroot & Cáceres 2014d); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); BA (Aptroot & Cáceres 2018); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017, as *Crocynia pyxinoides*)

Phyllopsora swinscowii Timdal & Krog, Mycotaxon 77: 88 (2001)

Distribution in Brazil: PA (Kistenich & al. 2019).

Geographical record: New to Amazonas.

Examined material: ISE (28120)

Physcidia striata Aptroot, M. Cáceres & Timdal, Lichenologist 46(6): 788 (2014)

Distribution in Brazil: RO (Aptroot & Cáceres 2014d); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017); MT (Kalb & Aptroot 2017); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Placynthiella uliginosa (Schrad.) Coppins & P. James, *Lichenologist* 16(3): 245 (1984)

≡ *Lichen uliginosus* Schrad. 1794

Distribution in Brazil: RS (Spielmann 2006).

Geographical record: New to Amazonas.

Examined material: ISE (50773)

Platygramme discurrens (Nyl.) Staiger, *Bibliotheca Lichenol.* 85: 362 (2002)

≡ *Graphis discurrens* Nyl. 1863

Distribution in Brazil: RO (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017);

Previous report: Cáceres & Aptroot (2017).

Platythecium allosporellum (Nyl.) Staiger, *Bibliotheca Lichenol.* 85: 377 (2002)

≡ *Graphis allosporella* Nyl. 1869

Distribution in Brazil: BA, ES, MG, MT, PR, RJ, SP (Staiger 2002); PE (Cáceres 2007);

RO (Cáceres & al. 2014a); SE (Cáceres & al. 2014).

Geographical record: New to Amazonas.

Examined material: ISE (50744 & 50750)

Platythecium biseptatum M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot, Parmen & Lücking, *Phytotaxa* 189(1): 119 (2014)

Distribution in Brazil: RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Platythecium leiogramma (Nyl.) Staiger, *Bibliotheca Lichenol.* 85: 388 (2002)

≡ *Graphis leiogramma* Nyl. 1863

Distribution in Brazil: SP (Staiger 2002); RJ (Krempelhuber 1876); SE (Cáceres & al. 2014);

AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Polymeridium albopruinosum (Makhija & Patw.) Aptroot, *Nova Hedwigia* 98(1–2): 8 (2013) ["2014"]

≡ *Trypethelium albopruinosum* Makhija & Patw. 1993

Distribution in Brazil: CE (Aptroot & Cáceres 2014); PA (Harris 1993); PE (Lima 2013);

AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Polymeridium chioneum (Mont.) R.C. Harris, *Lichenogr. Thomsoniana, North American Lichenology in Honor of John W. Thomson* (Ithaca): 141 (1998)

≡ *Verrucaria chionea* Mont. 1843

Distribution in Brazil: AM (Harris 1986); CE (Menezes 2013).

Previous report: Cáceres & Aptroot (2017).

Polymeridium jordanii (C.W. Dodge) Aptroot, *Nova Hedwigia* 98(1–2): 18 (2013) ["2014"]

≡ *Pseudopyrenula jordanii* C.W. Dodge 1964

Distribution in Brazil: CE (Menezes 2013); PE (Lima 2013); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Polymeridium multiforme Aptroot, *Nova Hedwigia* 98(1–2): 18 (2013) ["2014"]

Distribution in Brazil: CE (Aptroot & Cáceres 2014); PA (Harris 1993); AM (Cáceres & Aptroot

2017); BA (Aptroot & Cáceres 2018).
Previous report: Cáceres & Aptroot (2017).

Porina isidioambigua M. Cáceres, M.W.O. Santos & Aptroot, *Lichenologist* 45(3): 382 (2013)
Distribution in Brazil: SE (Cáceres & al. 2013c), RO (Aptroot & Cáceres 2014);
AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017), CE (Cáceres & al. 2017a);
BA (Aptroot & Cáceres 2018).
Previous report: Cáceres & Aptroot (2017).

Porina maxispora Aptroot & M. Cáceres, *Lichenologist* 45(6): 769 (2013)
Distribution in Brazil: RO (Aptroot & Cáceres 2014); AP (Cáceres & Aptroot 2016);
AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).
Previous report: Cáceres & Aptroot (2017).

Porina subinterstes (Nyl.) Müll. Arg., *Nuovo G. bot. ital.* 21(3): 364 (1889)
≡ *Verrucaria subinterstes* Nyl. 1873
Distribution in Brazil: ES, PE, RJ, SP (McCarthy 2003); AL (Cáceres 2007); RO (Aptroot & Cáceres
2014); SE (Cáceres & al. 2014); PB (Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016); CE
(Cáceres & al. 2017);
Geographical record: New to Amazonas.
Examined material: ISE (50716)

Pseudochapsa dilatata (Müll. Arg.) Parmen, Lücking & Lumbsch, *PLoS ONE* 7(12): e51392, 10
(2012)
≡ *Ocellularia dilatata* Müll. Arg. 1895
Distribution in Brazil: AM, BA, SP (Frisch & Kalb 2009); RJ (Staiger 2002);
AL, PE, SE (Cáceres 2007); RO (Cáceres & al. 2014a); PA (Aptroot & al. 2017).
Previous report: Cáceres & Aptroot (2017).

Pseudochapsa phlyctidioides (Müll. Arg.) Parmen, Lücking & Lumbsch, *PLoS ONE* 7(12): e51392,
10 (2012)
≡ *Ocellularia phlyctidioides* Müll. Arg. 1893
Distribution in Brazil: MS (Aptroot & Spielmann 2020).
Geographical record: New to Amazon.
Examined material: ISE (28280)

Pseudochapsa subdactylifera (Sipman) Lücking, in Cáceres, Aptroot, Parmen & Lücking, *Phytotaxa*
189(1): 120 (2014)
≡ *Myriotrema subdactyliferum* Sipman 1992
Distribution in Brazil: AM, PA (Frisch & Kalb 2009); AP (Cáceres & Aptroot 2016).
Previous report: Cáceres & Aptroot (2017).

Pseudopyrenula americana Aptroot, in Aptroot, Ertz, Etayo Salazar, Gueidan, Mercado Diaz,
Schumm & Weerakoon, *Lichenologist* 48(6): 633 (2016)
Distribution in Brazil: PE (Lima 2013), BA (Aptroot & Cáceres 2018).
Geographical record: New to Amazonas.
Examined material: ISE (50754)

Pseudopyrenula flavoreagens Aptroot & M. Cáceres, *Lichenologist* 48(6): 711 (2016)

Distribution in Brazil: MG, RO (Aptroot & Cáceres 2016b); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Pseudopyrenula subnudata Müll. Arg., *Flora, Regensburg* 66: 249, 272 (1883)

Distribution in Brazil: MG (Aptroot 2002); RJ (Zahlbruckner 1902); AM (Redinger 1933);

RS (Spielmann 2006); PE, SE (Cáceres 2007); AL (Menezes & al. 2011); RO (Cáceres & al. 2014);

MA, TO (Aptroot & al. 2017); BA (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Pycnotrema pycnoporellum (Nyl.) Rivas Plata & Lücking, in Rivas Plata, Lücking & Lumbsch, *Fungal Diversity* 52(1): 120 (2012)

≡ *Thelotrema pycnoporellum* Nyl. 1876

Distribution in Brazil: SE (Cáceres & al. 2014).

Geographical record: New to Amazonas.

Examined material: ISE (50736)

Pyrenula anomala (Ach.) Vain., *Ann. Acad. Sci. fenn., Ser. A* 6(no. 7): 189 (1915)

≡ *Trypethelium anomalum* Ach. 1814

Distribution in Brazil: PE (Lima 2013); PA (Zahlbruckner 1909); MS, MT (Malme 1924); MG

(Aptroot 2002); SE (Rodrigues 2012); AL (Menezes & al. 2011); SE (Rodrigues CE (Menezes 2013);

RO (Aptroot & Cáceres 2014); PB (Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016); AM

(Cáceres & Aptroot 2017); MA, TO (Aptroot & al. 2017); BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017).

Pyrenula arthoniotheca Upreti, *Nova Hedwigia* 66(3–4): 566 (1998)

Distribution in Brazil: CE (Menezes 2013); BA (Müller 1884); RO (Aptroot & Cáceres 2014); SE

(Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017);

Previous report: Cáceres & Aptroot (2017).

Pyrenula brunnea Fée, *Essai Crypt. Exot., Suppl. Révis.* (Paris): 81 (1837)

Distribution in Brazil: PB (Xavier-Leite & al. 2015); RS (Spielmann 2006); AM (Cáceres & Aptroot 2017); TO (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Pyrenula infraleucotrypa Aptroot & M. Cáceres, *Lichenologist* 45(2): 175 (2013)

Distribution in Brazil: RO (Aptroot & al. 2013a); CE (Menezes 2013); SE (Cáceres & al. 2014); PB

(Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); MA, TO

(Aptroot & al. 2017); BA (Aptroot & Cáceres 2018); MS (Aptroot & Spielmann 2020).

Previous report: Cáceres & Aptroot (2017).

Pyrenula laetior Müll. Arg., *Bot. Jb.* 6: 413 (1885)

Distribution in Brazil: CE (Menezes 2013); PE (Lima 2013); RO (Aptroot & Cáceres 2014);

AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Pyrenula lineatostroma Aptroot, in Aptroot, Diederich, Sérusiaux & Sipman, *Bibliothca Lichenol.* 64: 160 (1997)

Distribution in Brazil: AL (Cáceres 2007); RO (Aptroot & Cáceres 2014); TO (Aptroot & al. 2017).

Geographical record: New to Amazonas.

Examined material: ISE (50654 & 50698)

Pyrenula mamillana Aptroot, in Aptroot, Diederich, Sérusiaux & Sipman, *Bibliotheca Lichenol.* 64: 160 (1997)

≡ *Verrucaria mamillana* Ach. 1803

Distribution in Brazil: BA (Marcelli 1992); AM (Leighton 1866); PA (Müller 1884); MT (Malme 1929); AL, SE (Cáceres 2007); CE (Menezes 2013); PE (Lima 2013); AP (Cáceres & Aptroot 2016); TO (Aptroot & al. 2017); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Pyrenula pyrenuloides (Mont.) R.C. Harris, *Mem. N. Y. bot. Gdn* 49: 99 (1989)

≡ *Trypethelium pyrenuloides* Mont. 1843

Distribution in Brazil: RS (Malme 1929); AM (Leighton 1866); AL, PE, SE (Cáceres 2007); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Pyrenula rubromamillana E.L. Lima, Aptroot & M. Cáceres, *Lichenologist* 45(2): 200 (2013)

Distribution in Brazil: PE (Lima & al. 2013a); AM (Cáceres & Aptroot 2017); BA (Aptroot & Cáceres 2018); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Pyrenula rubronitidula Aptroot & M. Cáceres, *Lichenologist* 45(2): 190 (2013)

Distribution in Brazil: RO (Aptroot & al. 2013a); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017).
Previous report: Cáceres & Aptroot (2017).

Pyrenula xanthinspersa Aptroot & M. Cáceres, in Aptroot, Sipman, Mercado Diaz, Mendonça, Feuerstein, Cunha-Dias, Pereira & Cáceres, *Lichenologist* 50(1): 82 (2018)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).
Previous report: Cáceres & Aptroot (2017).

Ramboldia haematites (Fée) Kalb, Lumbsch & Elix, *Nova Hedwigia* 86(1–2): 33 (2008)

≡ *Lecidea haematites* Fée 1873

Distribution in Brazil: RJ (Kalb & al. 2009); SE (Cáceres 2007); AL (Menezes & al. 2011); RS (Käffer & al. 2011); CE (Menezes 2013); PE (Lima 2013); PB (Xavier-Leite & al. 2015); RO (Aptroot & Cáceres 2014d); SC (Gumboski 2014); SP (Kalb & al. 2009); AM (Cáceres & Aptroot 2017); MA (Aptroot & al. 2017); BA (Aptroot & Cáceres 2018).
Previous report: Cáceres & Aptroot (2017).

Rhabdodiscus lankaensis (Hale) Lücking, *Phytotaxa* 189(1): 226 (2014)

≡ *Ocellularia lankaensis* Hale 1981

Geographical record: New to Brazil.
Examined material: ISE (28533)

Rhabdodiscus latilabrus (Tuck.) Vain., *Ann. Acad. Sci. fenn., Ser. A* 15(no. 6): 184 (1921)

≡ *Thelotrema latilabrum* Tuck. 1866

Distribution in Brazil: New to Brazil.
Examined material: ISE (28324)

Rhabdodiscus subemersus (Müll. Arg.) Rivas Plata, Lücking & Lumbsch, *Taxon* 61(6): 1176 (2012)

≡ *Ocellularia subemersa* Müll. Arg. 1886

Distribution in Brazil: AM, PA, SP (Frisch & Kalb 2006); AL (Cáceres 2007); RO, SE (Cáceres & al. 2014).
Examined material: ISE (28343)

Sagenidiopsis undulata (Fée) Egea, Tehler, Torrente & Sipman [as 'undulatum'], *Lichenologist* 27(5): 358 (1995)

≡ *Lecanora undulata* Fée 1825

Distribution in Brazil: MG (Aptroot 2002); MT, RJ (Malme 1937); PE (Cáceres 2007); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); BA (Cáceres & al. 2016); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Sarcographa labyrinthica (Ach.) Müll. Arg., *Mém. Soc. Phys. Hist. nat. Genève* 29(no. 8): 62 (1887)

≡ *Glyphis labyrinthica* Ach. 1814

Distribution in Brazil: PE, AL, SE (Cáceres 2007); BA (Staiger 2002); RO (Cáceres & al. 2014); PB (Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017); SC (Menezes & al. 2018).

Previous report: Cáceres & Aptroot (2017).

Sprucidea gymnopiperis (Kalb) M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot & Lücking, *Bryologist* 120(2): 207 (2017)

≡ *Malmidea gymnopiperis* Kalb, (2011)

Distribution in Brazil: AM, RO, BA (Cáceres & al. 2017b).

Previous report: Cáceres & al. (2017); Cáceres & Aptroot (2017, as *Malmidea gymnopiperis*).

Sprucidea rubropenicillata M. Cáceres, Aptroot & Lücking, in Cáceres, Aptroot & Lücking, *Bryologist* 120(2): 209 (2017)

Distribution in Brazil: AM, RO (Cáceres & al. 2017b).

Previous report: Cáceres & al. (2017)

Stegobolus actinotus (Tuck.) Frisch & Kalb, *Bibliotheca Lichenol.* 92: 429 (2006)

≡ *Thelotrema actinotum* Tuck. 1862

Geographical record: New to Brazil.

Examined material: ISE (50663)

Stegobolus anamorphus (Nyl.) Frisch & Kalb, *Bibliotheca Lichenol.* 92: 431 (2006)

≡ *Thelotrema anamorphum* Nyl. 1863

Distribution in Brazil: AM (Frisch & Kalb 2006); MT (Redinger 1936); MG (Aptroot 2002); AL (Cáceres 2007); RO (Cáceres & al. 2014a); SE (Cáceres & al. 2014); PE (Menezes & al. 2018).

Examined material: ISE (28173)

Stegobolus berkeleyanus Mont., in Hooker, *London J. Bot.* 4: 4 (1845)

Distribution in Brazil: RO (Cáceres & al. 2014a); AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Synarthonia xanthosarcographoides Aptroot, in Aptroot & Spielmann, *Archive for Lichenology* 17: 10 (2020)

Distribution in Brazil: MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Examined material: ISE (50792)

Thelotrema subtile Tuck., *Amer. J. Sci. Arts, Ser. 2* 25: 426 (1858)

Distribution in Brazil: PB (Menezes & al. 2018).

Geographical record: New to Amazonas.

Examined material: ISE (28291)

Trypethelium eluteriae Spreng., Anleit. Kennt. Gew. 3: 350 (1804)

Distribution in Brazil: PA (Harris 1986); AM (Leighton 1866); MG (Vainio 1890); SC (Müller 1891b); MS, MT, RJ (Malme 1924); SE (Cáceres 2007); AL (Menezes & al. 2011); CE (Menezes 2013); PE (Lima 2013); RO (Cáceres & al. 2014); PB (Xavier-Leite & al. 2015); AP (Cáceres & Aptroot 2016); BA (Cáceres & al. 2016); MA, TO (Aptroot & al. 2017).
Examined material: ISE (50684)

Trypethelium krempelhuberi Makhija & Patw. [as '*krempelhuberii*'], Int. J. Mycol. Lichenol. 5(3): 241 (1992)

Distribution in Brazil: MT (Aptroot & Lücking 2016); PB (Menezes & al. 2018).
Geographical record: New to Amazonas.
Examined material: ISE (50692)

Trypethelium platystomum Mont., Annl. Sci. Nat., Bot., sér. 2 19: 72 (1843)

Distribution in Brazil: MT (Malme 1924); AM (Leighton 1866); RO, SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); MA, PA, TO (Aptroot & al. 2017); BA (Aptroot & Cáceres 2018); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Tylophoron hibernicum (D. Hawksw., Coppins & P. James) Ertz, Diederich, Bungartz & Tibell, in Ertz, Bungartz, Diederich & Tibell, Lichenologist 43(4): 354 (2011)

≡ *Blarneya hibernica* D. Hawksw., Coppins & P. James 1980

Distribution in Brazil: SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017); MS (Aptroot & Spielmann 2020).
Previous report: Cáceres & Aptroot (2017).

Tylophoron moderatum Nyl., Bot. Ztg. 20: 279 (1862)

Distribution in Brazil: GO, MG, MS, MT (Tibell 1996); AL (Cáceres 2007); AM (Cáceres & Aptroot 2017).
Previous report: Cáceres & Aptroot (2017).

Viridothelium ustulatum M. Cáceres & Aptroot, Bryologist 120(2): 179 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017)
Previous report: Cáceres & Aptroot (2017).

Foliicolous:

Aderkomyces couepiae Bat., Publicações. Instituto de Micologia da Universidade do Recife & Instituto Nacional de Pesquisas 320: 18 (1961)

Distribution in Brazil: AM (Batista 1961); MA (Batista & al. 1961).
Previous reports: Batista (1961); Lücking (2008).

Aderkomyces heterellus (Stirt.) Lücking, Sérus. & Vězda, Lichenologist 37(2): 162 (2005)

≡ *Arthonia heterella* Stirt. 1879

Distribution in Brazil: AM, PE, PR (Lücking 2008); SP (Kalb & Vězda 1988); MT (Lücking & Kalb 2000); PA (Lücking & Cáceres 2002); CE (Alves 2014); RO (Cáceres & al. 2014); BA (Santos & al. 2016).
Examined material: ISE (50710p)

Aderkomyces papilliferus (Lücking) Lücking, Sérus. & Vězda, Lichenologist 37(2): 162 (2005)

≡ *Tricharia papillifera* Lücking 1997

Distribution in Brazil: PE (Lücking 2008); BA (Santos & al. 2016).
Geographical record: New to Amazonas.
Examined material: ISE (50710z)

Amazonomyces sprucei (R. Sant.) Lücking, Sérus. & G. Thor, in Lücking, Sérusiaux, Maia & Pereira, Lichenologist 30(2): 134 (1998)

≡ *Stirtonia sprucei* R. Sant. 1952

Distribution in Brazil: AM, PA (Lücking 2008).

Examined material: ISE (50710n)

Anisomeridium foliicola R. Sant. & Tibell, Austrobaileya 2(5): 531 (1988)

Distribution in Brazil: PE (Lücking 2008); ES, SP (Lücking & Kalb 2000); PA (Lücking & Cáceres 2002); RO, SE (Aptroot & Cáceres 2014); BA, PB (Santos & al. 2016).

Geographical record: New to Amazonas.

Examined material: ISE (50710ac)

Anisomeridium musaesporoides Etayo & Lücking, Lichenologist 31(2): 145 (1999)

Distribution in Brazil: AM (Lücking 2008); PA (Lücking & Kalb 2000); RO (Aptroot & Cáceres 2014).

Examined material: ISE (50710ab)

Arthonia accolens Stirt. Proc. Roy. phil. Soc. Glasgow 11: 105 (1879) ["1878"]

Distribution in Brazil: AM, PE, RJ, SP (Lücking 2008); CE, MT (Lücking & Kalb 2000);

PA (Lücking & Cáceres 2002); RS (Spielmann 2006); RO (Cáceres & al. 2014b);

PB (Santos & al. 2016).

Examined material: ISE (50710ax)

Arthonia orbigniae Bat. & J.L. Bezerra [as '*orbygniae*'], in Lücking, Sérusiaux, Maia & Pereira, Lichenologist 30(2): 149 (1998)

Distribution in Brazil: AM, RO (Lücking 2008).

Examined material: ISE (50710av)

Arthonia trilocularis Müll. Arg., Flora, Regensburg 64(15): 233 (1881)

Distribution in Brazil: AM, PE, MT (Lücking 2008); PA (Lücking & Cáceres 2002);

RO (Cáceres & al. 2014b).

Examined material: ISE (50710aw)

Arthotheliopsis hymenocarpoides Vain., J. Bot., Lond. 34: 205 (1896)

Distribution in Brazil: AM (Lücking 2008); PB (Santos & al. 2016).

Previous report: Lücking (2008).

Aspidothelium geminiparum (Malme) R. Sant., Symb. bot. upsal. 12(no. 1): 285 (1952)

≡ *Porinopsis geminipara* Malme 1928

Distribution in Brazil: RS (Lücking 2008); SP (Lücking & Kalb 2000); PE (Cáceres 2007);

RO (Aptroot & Cáceres 2014); MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Examined material: ISE (50710ch)

Asterothyrium rondoniense Bat. & H. Maia ex Henssen & Lücking,

Cryptog. Mycol. 20(3): 207 (1999)

Distribution in Brazil: AM, PA, RO (Lücking 2008).

Previous report: Lücking (2008).

Asterothyrium rotuliforme (Müll. Arg.) Sérus. & J.R. De Sloover, in Sérusiaux & de Sloover, Veröff. geobot. Inst., Zürich 91: 268 (1986)

≡ *Gyalectidium rotuliforme* Müll. Arg. 1888

Distribution in Brazil: PA, RO, SP (Lücking 2008); RS (Spielmann 2006).

Geographical record: New to Amazonas.

Examined material: ISE (50710t)

Aulaxina intermedia Lücking, *Bibliotheca Lichenol.* 65: 27 (1997)

Distribution in Brazil: RJ (Lücking 2008); SP (Lücking & Kalb 2000); RO (Cáceres & al. 2014); BA, PB (Santos & al. 2016).

Geographical record: New to Amazonas.

Examined material: ISE (50710r)

Aulaxina minuta R. Sant., *Symb. bot. upsala.* 12(no. 1): 298 (1952)

Distribution in Brazil: AM, BA, PE, SP (Lücking 2008); PA (Lücking & Cáceres 2002); RO (Cáceres & al. 2014); PB (Santos & al. 2016).

Previous report: Lücking (2008).

Badimia dimidiata (Bab. ex Leight.) Vězda, *Folia geobot. phytotax.* 21(2): 215 (1986)

≡ *Lecanora dimidiata* Bab. ex Leight. 1866

Distribution in Brazil: AM, PA, PE, RO, RJ (Lücking 2008); MT (Lücking & Kalb 2000).

Examined material: ISE (50710d)

Badimia pallidula (Kremp.) Vězda, *Folia geobot. phytotax.* 21(2): 215 (1986)

≡ *Lecidea pallidula* Kremp. 1874

Distribution in Brazil: AM (Lücking 2008); PA (Lücking & Cáceres 2002);

RO (Aptroot & Cáceres 2014d).

Examined material: ISE (50710f)

Bapalmuia palmularis (Müll. Arg.) Sérus., *Nordic J Bot.* 13(4): 451 (1993)

≡ *Patellaria palmularis* Müll. Arg. 1890

Distribution in Brazil: AM, PE, RJ, SP (Lücking 2008); PA (Lücking & Kalb 2000);

BA (Santos & al. 2016).

Examined material: ISE (50710a)

Brasilicia brasiliensis (Müll. Arg.) Lücking, Kalb & Sérus., in Lücking, *Fl. Neotrop., Monogr.* 103: 667 (2008)

≡ *Patellaria brasiliensis* Müll. Arg. 1890

Distribution in Brazil: AM, PE, PR, SC, SP (Lücking 2008); RJ (Kalb 1981); PA (Lücking & Cáceres 2002); RS (Spielmann 2006); RO (Aptroot & Cáceres 2014d), BA (Santos & al. 2016).

Examined material: ISE (50710e)

Byssolecania fumosonigricans (Müll. Arg.) R. Sant., *Symb. bot. upsala.* 12(no. 1): 553 (1952)

≡ *Patellaria fumosonigricans* Müll. Arg. 1890

Distribution in Brazil: AM, MT, PE, SP (Lücking 2008); RS (Spielmann 2006);

RO (Aptroot & Cáceres 2014d);

Examined material: ISE (50710y)

Byssoloma fuscothallinum Lücking, *Cryptog. Mycol.* 27(2): 128 (2006)

Geographical record: New to Brazil.

Examined material: ISE (50710x)

Byssoloma guttiferæ (Bat. & Peres) Lücking & Sérus., in Lücking, Sérusiaux, Maia & Pereira, *Lichenologist* 30(2): (Müll. Arg.) R. Sant., *Symb. bot. upsala.* 12(no. 1): 349 (1952) 138 (1998)

≡ *Crocicreomyces guttiferæ* Bat. & Peres 1964

Distribution in Brazil: AM (Lücking 2008); PA (Lücking & Cáceres 2002).

Previous report: Lücking (2008).

Calenia phyllogena (Müll. Arg.) R. Sant., Symb. bot. upsal. 12(no. 1): 349 (1952)

≡ *Phlyctidium phyllogenum* Müll. Arg. 1888

Distribution in Brazil: PE (Lücking 2008); PA (Cengia Sambo 1940);

Geographical record: New to Amazonas.

Examined material: ISE (50710v)

Chroodiscus coccineus (Leight.) Müll. Arg., Lichenes Epiphylli Novi: 18 (1890)

≡ *Platygrapha coccinea* Leight. 1866

Distribution in Brazil: AM, MG, PE, PR, RJ, SP (Lücking 2008); SC (Redinger 1936);

PA (Cengia Smabo 1940); RS (Spielmann 2006); RO, SE (Cáceres & al. 2014);

BA (Santos & al. 2016).

Examined material: ISE (50710bb)

Coenogonium barbatum Lücking, Aptroot & L. Umaña, in Rivas Plata, Lücking, Aptroot, Sipman, Chaves, Umaña & Lizano, Fungal Diversity 23: 273 (2006)

Distribution in Brazil: RO (Cáceres & al. 2014); CE (Alves 2014).

Geographical record: New to Amazonas.

Examined material: ISE (50710ah)

Coenogonium ciliatum Kalb & Lücking, in Lücking & Kalb, Bot. Jb. 122(1): 29 (2000)

Distribution in Brazil: AM, PE (Lücking 2008); MT (Lücking & Kalb 2000); PA (Lücking & Cáceres 2002); RO (Cáceres & al. 2014).

Examined material: ISE (50710ad)

Coenogonium hypophyllum (Vězda) Kalb & Lücking, in Lücking & Kalb, Bot. Jb. 122(1): 32 (2000)

≡ *Dimerella hypophylla* Vězda 1975

Distribution in Brazil: AM, PE, SC (Lücking 2008); SP (Kalb 1984); PA (Lücking & Cáceres 2002);

RO (Cáceres & al. 2014); BA (Santos & al. 2016).

Examined material: ISE (50710ai)

Coenogonium interplexum Nyl., Anns Sci. Nat., Bot., sér. 4 16: 92 (1862)

Distribution in Brazil: PE (Lücking 2008); AM (Lücking & Kalb 2000);

PA (Lücking & Cáceres 2002); RS (Spielmann 2006); AL (Cáceres 2007);

SE (Cáceres & al. 2014); PB (Santos & al. 2016).

Previous report: Cáceres & Aptroot (2017).

Coenogonium linkii Ehrenb., in Nees von Esenbeck (Ed.), Horae Phys. Berol.: 120, tab. 27 (1820)

Distribution in Brazil: AM, PE (Lücking 2008); PA, RJ, SC (Cengia Sambo 1940); SP (Kalb 1982c);

MG (Aptroot 2002); RS (Spielmann 2006); AL, SE (Cáceres 2007); RO (Cáceres & al. 2014); AP

(Cáceres & Aptroot 2016); BA (Santos & al. 2016); MA (Aptroot & al. 2017).

Examined material: ISE (50710ag)

Coenogonium subluteum (Rehm) Kalb & Lücking, in Lücking & Kalb, Bot. Jb. 122(1): 34 (2000)

≡ *Biatorina sublutea* Rehm 1913

Distribution in Brazil: AM, ES, MG, PE, RO, SC (Lücking 2008); SP (Kalb 1988);

PR, RJ (Lücking & Kalb 2000); PA (Lücking & Cáceres 2002); RS (Spielmann 2006);

SE (Cáceres & al. 2014); BA, PB (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710ae)

Cryptothecia inexpectata G. Thor, Symb. bot. upsal. 32(no. 1): 283 (1997)

Geographical record: New to Brazil.

Examined material: ISE (50710u)

Cyphellostereum phyllogenum (Müll. Arg.) Lücking, Dal-Forno & Lawrey, in Lücking, Dal-Forno, Lawrey, Bungartz, Holgado Rojas, Hernández, Marcelli, Moncada, Morales, Nelsen, Paz, Salcedo, Spielmann, Wilk, Will-Wolf & Yáñez-Ayabaca, *Phytotaxa* 139(1): 24 (2013)

≡ *Dichonema phyllogenum* Müll. Arg. 1884

Distribution in Brazil: RJ (Lücking 2008); PE (Cáceres 2007).

Geographical record: New to Amazonas.

Examined material: ISE (50710ba)

Dichosporidium nigrocinctum (Ehrenb.) G. Thor, *Op. bot.* 103: 71 (1991)

≡ *Hypochnus nigrocinctus* Ehrenb. 1820

Distribution in Brazil: MG (Aptroot 2002); RJ (Krempelhuber 1876); SP (Kalb 1983);

AL, PE (Cáceres 2007); SE (Cáceres & al. 2014).

Geographical record: New to Amazonas.

Examined material: ISE (50710bc)

Echinoplaca epiphylla Fée, *Essai Crypt. Exot. (Paris)*: xciii (1825) [“1824”]

Distribution in Brazil: AM, PE, SP (Lücking 2008); RO (Cáceres & al. 2014);

BA, PB (Santos & al. 2016);

Examined material: ISE (50710q)

Eremothecella calamicola Syd. & P. Syd., *Annl. mycol.* 15(3/4): 236 (1917)

Distribution in Brazil: AM, MA, PE (Lücking 2008); SP (Lücking & Kalb 2000);

PA (Lücking & Cáceres 2002); RO (Cáceres & al. 2014b); BA (Santos & al. 2016);

MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710au)

Eschatogonia prolifera (Mont.) R. Sant., in Swinscow & Krog, *Macrolichens of East Africa* (London): 86 (1988)

≡ *Biatora prolifera* Mont. 1851

Distribution in Brazil: AM (Kalb & al. 2012); RO (Aptroot & Cáceres 2014d);

AP (Cáceres & Aptroot 2016); PA (Aptroot & al. 2017).

Examined material: ISE (50710aj)

Gyalectidium filicinum Müll. Arg., *Flora, Regensburg* 64: 101 (1881)

Distribution in Brazil: AM, MG, PE, PR, RJ, RS, SC, SP (Lücking 2008); PA (Lücking & Cáceres

2002); SE (Cáceres & al. 2014); BA, PB (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710bh)

Gyalideopsis cochlearifera Lücking & Sérus. [as '*cochlearifer*'], *Lichenologist* 30(6): 543 (1998)

Distribution in Brazil: PE (Lücking & al. 1999); SP (Lücking & Kalb 2000);

RO, SE (Cáceres & al. 2014).

Geographical record: New to Amazonas.

Examined material: ISE (50710bi)

Gyalideopsis vulgaris (Müll. Arg.) Lücking, *Bibliotheca Lichenol.* 65: 75 (1997)

≡ *Lopadium vulgare* Müll. Arg. 1881

Distribution in Brazil: MG, PR, RJ, RS, SP (Lücking 2008); ES (Lücking & Kalb 2000);

BA, PB (Santos & al. 2016); MS (Aptroot & Spielmann 2020)

Geographical record: New to Amazonas.

Examined material: ISE (50710bm)

Herpothallon aurantiacoflavum (B. de Lesd.) Aptroot, Lücking & G. Thor, in Aptroot, Thor, Lücking, Elix & Chaves, *Bibliotheca Lichenol.* 99: 31 (2009)

≡ *Chiodecton aurantiacoflavum* B. de Lesd. 1934

Distribution in Brazil: PE (Aptroot & al. 2009); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014);

AP (Cáceres & Aptroot 2016); BA (Cáceres & al. 2016); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Examined material: ISE (50710bd)

Herpothallon roseocinctum (Fr.) Aptroot, Lücking & G. Thor, in Aptroot, Thor, Lücking, Elix & Chaves, *Bibliotheca Lichenol.* 99: 59 (2009)

≡ *Thelephora roseocincta* Fr. 1830

Distribution in Brazil: PE (Aptroot & al. 2009); MG (Vainio 1890); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); PA (Aptroot & al. 2017); RS (Lucheta & al. 2018); MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Previous report: 50710bg)

Herpothallon rubrocinctum (Ehrenb.) Aptroot, Lücking & G. Thor, in Aptroot, Thor, Lücking, Elix & Chaves, *Bibliotheca Lichenol.* 99: 61 (2009)

≡ *Hypochnus rubrocinctus* Ehrenb., in Nees von Esenbeck (Ed.) 1820

Distribution in Brazil: RJ, SC, SP (Marcelli 1992); AM (Moreira de Barros & Xavier Filho 1972); MG (Aptroot 2002); RS (Spielmann 2006); PE (Cáceres 2007); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); AL (Nusbaumer & al. 2015); BA (Cáceres & al. 2016); PR (Eliasaró & al. 2012).

Examined material: ISE (50710be)

Herpothallon rubromaculatum G. Thor, in Aptroot, Thor, Lücking, Elix & Chaves, *Bibliotheca Lichenol.* 99: 63 (2009)

Distribution in Brazil: RO (Cáceres & al. 2014b); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Examined material: ISE (50710bf)

Lasioloma arachnoideum (Kremp.) R. Sant., *Symb. bot. upsala.* 12(no. 1): 547 (1952)

≡ *Phlyctis arachnoidea* Kremp. 1875

Distribution in Brazil: AM, PE, SP (Lücking 2008); PA (Lücking & Cáceres 2002); SE (Cáceres & al. 2014); BA (Santos & al. 2016).

Examined material: ISE (50710d)

Mazosia bambusae (Vain.) R. Sant., *Symb. bot. upsala.* 12(no. 1): 121 (1952)

≡ *Chiodecton bambusae* Vain. 1921

Distribution in Brazil: AM, MG, PE, SP (Lücking 2008); MT (Lücking & Kalb 2000); RO (Cáceres & al. 2014b).

Examined material: ISE (50710bo)

Mazosia melanophthalma (Müll. Arg.) R. Sant., *Symb. bot. upsala.* 12(no. 1): 117 (1952)

≡ *Opegrapha melanophthalma* Müll. Arg. 1883

Distribution in Brazil: AM, AP, BA, MT, PA, PE, RO, RS, SP (Lücking 2008); MG (Kalb & Vězda 1988); SE (Cáceres & al. 2014); PB (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710bn)

Mazosia phyllosema (Nyl.) Zahlbr., *Cat. Lich. Univers.* 2: 503 (1923) ["1924"]

≡ *Platygrapha phyllosema* Nyl. 1873

Distribution in Brazil: AM, AP, MG, MT, PE, RJ, SC (Lücking 2008); PA (Kalb & Vězda 1988); BA, SP (Marcelli 1992); RS (Spielmann 2006); SE (Cáceres 2007); RO (Cáceres & al. 2014b); PB (Santos & al. 2016).

Examined material: ISE (50710bp)

Mazosia rotula (Mont.) A. Massal., Geneac. lich. (Verona): 9 (1854)

≡ *Strigula rotula* Mont., in Sagra 1845

Distribution in Brazil: AM, MG, PA, PE, PR, SP (Lücking 2008); BA, MT, RJ (Kalb & Vězda 1988); ES (Lücking & Kalb 2000); RS (Spielmann 2006); RO (Cáceres & al. 2014b); SE (Cáceres & al. 2014); PB (Santos & al. 2016); MS (Aptroot & Spielmann 2020).
Examined material: ISE (50710br)

Mazosia rubropunctata R. Sant., Symb. bot. upsal. 12(no. 1): 122 (1952)

Distribution in Brazil: AM, SP (Kalb & Vězda 1988); PA (Lücking & Kalb 2000); RO (Cáceres & al. 2014b).

Examined material: ISE (50710bq)

Mazosia tumidula (Müll. Arg.) Zahlbr., Cat. Lich. Univers. 2: 504 (1923) ["1924"]

≡ *Rotula tumidula* Müll. Arg. 1890

Distribution in Brazil: AC, AM, PA, PE, RR (Lücking 2008); MT (Lücking 2000); RS (Spielman 2006); RO (Cáceres & al. 2014b).

Examined material: ISE (28150 & 50710bs)

Microtheliopsis uleana Müll. Arg., Flora, Regensburg 73: 195 (1890)

Distribution in Brazil: AM, PA, PE, PR, RJ, RS, SP (Lücking 2008); RO (Aptroot & Cáceres 2014); BA (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710bk)

Myriostigma filicinum (Ellis & Everh.) Frisch & G. Thor, in Frisch, Thor, Ertz & Grube, Taxon 63(4): 739 (2014)

≡ *Ascomycetella filicina* Ellis & Everh. 1893

Distribution in Brazil: AM (Lücking 2008); CE (Menezes 2013); RO (Cáceres & al. 2014b); PA (Aptroot & al. 2017).

Examined material: ISE (28147 & 50710o)

Opegrapha duckei Bat., J.L. Bezerra & Cavalc., Publicações. Instituto de Micologia da Universidade do Recife & Instituto Nacional de Pesquisas 319: 19 (1961)

Distribution in Brazil: AM (Batista & al. 1961).

Previous reports: Batista & al. (1961); Lücking (2008).

Phyllobathelium firmum (Stirt.) Vězda, in Lücking & Kalb, Bot. Jb. 122(1): 44 (2000)

≡ *Opercularia firma* Stirt. 1879

Distribution in Brazil: AM, SC, SP (Lücking 2008); RJ (Vainio 1890); RS (Spielmann 2006); BA, PE (Santos & al. 2016).

Previous report: Lücking (2008).

Phyllobathelium thaxteri (Vain.) Zahlbr., Cat. Lich. Univers. 8: 142 (1931) ["1932"]

≡ *Thelenella thaxteri* Vain. 1923

Distribution in Brazil: RS (Lücking 2008); RJ (Lücking & Kalb 2000);

PA (Lücking & Cáceres 2002).

Geographical record: New to Amazonas.

Examined material: ISE (50710aa)

Phylloporis phyllogena (Müll. Arg.) Clem., Gen. fung. (Minneapolis): [173] (1909)

≡ *Porina phyllogena* Müll. Arg. 1883

Distribution in Brazil: AM, PE, SP, SC (Lücking 2008); RO (Aptroot & Cáceres 2014);

PA (Lücking & Cáceres 2002); BA (Santos & al. 2016); MT, RJ (Lücking & Kalb 2000);

RS (Spielmann 2006).

Examined material: ISE (50710ak)

Porina alba (R. Sant.) Lücking, Bibliotheca Lichenol. 88: 412 (2004)

≡ *Phyllophiale alba* R. Sant. 1952

Distribution in Brazil: AM, AP, MT, PE, RO (Lücking 2008); BA (Lücking & Kalb 2000); PA, SP (McCarthy 2003); SE (Cáceres & al. 2014); PB (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710k)

Porina epiphylla Fée, Essai Crypt. Exot. (Paris): 76 (1825) [“1824”]

Distribution in Brazil: AM, AP, BA, MG, MT, PA, PE, PR, RJ, RS, SC, SP (McCarthy 2003); RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014c); PB (Santos & al. 2016);

MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710g)

Porina fusca Lücking, Nova Hedwigia 52(3–4): 283 (1991)

Distribution in Brazil: AM, PA, PE, RO, SP (McCarthy 2003); SE (Cáceres & al. 2014).

Previous report: Lücking (2008).

Porina imitatrix Müll. Arg., Flora, Regensburg 73: 196 (1890)

Distribution in Brazil: AM, ES, PA, PE, RJ, RS, SC, SP (McCarthy 2003); SE (Cáceres 2007); RO (Aptroot & Cáceres 2014); PB (Xavier-Leite & al. 2015).

Examined material: ISE (50710h)

Porina nitidula Müll. Arg., Flora, Regensburg 66(21): 336 (1883)

Distribution in Brazil: CE, ES, PA, PE, PR, RJ, RS, SC, SP (McCarthy 2003); SE (Cáceres & al. 2014); MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Examined material: ISE (50710j)

Porina radiata Kalb, Lücking & Vězda, in Lücking & Vězda, Willdenowia 28(1/2): 214 (1998)

≡ *Porina rugosa* Kalb & Vězda 1992

Distribution in Brazil: AM, AP, PA, SP (Lücking 2008).

Examined material: ISE (50710i)

Porina rubentior (Stirt.) Müll. Arg., Flora, Regensburg 66: 26 (1883)

≡ *Verrucaria rubentior* Stirt. 1879

Distribution in Brazil: AM, BA, CE, MG, PA, PE, RO, RJ, RS, SC, SP (McCarthy 2003); ES (Lücking 2008); SE (Cáceres & al. 2014); PB (Santos & al. 2016).

Examined material: ISE (50710l)

Porina rufula (Kremp.) Vain., Acta Soc. Fauna Flora fenn. 7(no. 2): 227 (1890)

≡ *Verrucaria rufula* Kremp. 1874

Distribution in Brazil: AM, PA, PE, PR, RJ, RS, SC, SP (McCarthy 2003); MG (Aptroot 2002); BA, SE (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710m)

Racoplaca melanobapha (Kremp.) S.H. Jiang, Lücking & J.C. Wei, in Hongsanan & al., Fungal Diversity: 10.1007/s13225-020-00462-6, [136] (2020)

≡ *Verrucaria melanobapha* Kremp. 1874

Distribution in Brazil: AM, PA, PE, MA (Lücking 2008); RO (Cáceres & al. 2014).

Examined material: ISE (50710ao)

Rolueckia conspersa (Stirt.) Papong, Thammath. & Boonpr., Nova Hedwigia 86(1–2): 205 (2008)

≡ *Thelotrema conspersum* Stirt. 1879

Distribution in Brazil: AM, MG, MT, PE, SC, SP (Lücking 2008); PA (Cengia Sambo 1940);

RO (Cáceres & al. 2014).

Examined material: ISE (50710s & 50710bj)

Sporopodium leprieurii Mont., Anns Sci. Nat., Bot., sér. 3 16: 54, pl. 16, fig. 1 (1851)

Distribution in Brazil: AM, PE, SP (Lücking 2008); ES, MT (Lücking & Kalb 2000);

PA (Lücking & Cáceres 2002); RS (Spielmann 2006).

Examined material: ISE (50710e)

Strigula nemathora Mont., in Sagra, Histoire física, política y natural de la islea de Cuba 9: 96 (1845)

Distribution in Brazil: MS (Aptroot & Spielmann 2020).

Geographical record: New to Amazonas.

Examined material: ISE (50710ap)

Strigula nitidula Mont., in Sagra, Histoire física, política y natural de la islea de Cuba 9: 93 (1845)

Distribution in Brazil: AM, MG, PE, SP (Lücking 2008); RJ (Krempelhuber 1876);

PA (Lücking & Cáceres 2002); RS (Spielmann 2006); RO (Aptroot & Cáceres 2014);

SE (Cáceres & al. 2014); BA (Santos & al. 2016); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710am)

Strigula prasina Müll. Arg., Flora, Regensburg 68(18): 343 (1885)

Distribution in Brazil: AM, SP (Lücking 2008).

Examined material: ISE (50710al)

Strigula schizospora R. Sant., Symb. bot. upsal. 12(no. 1): 175 (1952)

Distribution in Brazil: AM, PE, SC (Lücking 2008); ES, CE, SP (Lücking & Kalb 2000);

PA (Lücking & Cáceres 2002); RS (Spielmann 2006); BA, SE (Santos & al. 2016).

Examined material: ISE (Lücking 2008)

Strigula smaragdula Fr., Linnaea 5: 550 (1830)

Distribution in Brazil: AM, PE, PR (Lücking 2008); RJ, SC (Müller 1891b); MG (Vainio 1980); PA

(Cengia Sambo 1940); ES, MT, SP (Lücking & Kalb 2000); RS (Spielmann 2006);

RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014); BA, PB (Santos & al. 2016);

MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710an)

Tricharia carnea (Müll. Arg.) R. Sant., Symb. bot. upsal. 12(no. 1): 385 (1952)

≡ *Lopadium carneum* Müll. Arg. 1881

Distribution in Brazil: AM, PE, RJ, RS, SP (Lücking 2008); SC (Müller 1891a);

BA, MT (Kalb & Vězda 1988); MS (Aptroot & Spielmann 2020).

Examined material: ISE (50710az)

Tricharia melanothrix Fée, Essai Crypt. Exot. (Paris): xcvi, cii (1825) ["1824"]

Distribution in Brazil: AM, PA (Cengia Sambo 1940); RJ (Vainio 1890);

SE (Cáceres & al. 2014).

Examined material: ISE (50710ay)

Tricharia vainioi R. Sant., Symb. bot. upsal. 12(no. 1): 382 (1952)

Distribution in Brazil: AM, PE, PR, RJ, SP (Lücking 2008); RO (Cáceres & al. 2014);

BA, PB, SE (Santos & al. 2016).

Previous report: Lücking (2008).

Trichothelium bipindense F. Schill., Hedwigia 67: 278 (1927)

Distribution in Brazil: AM, PB, PE, PR, RO, RS, SC, SP (Lücking 2008); PA (McCarthy 2003); BA

(Santos & al. 2016).

Previous report: Lücking (2008).

Trichothelium brasiliense J.L. Bezerra & L. Xavier, Brotéria, N.S. 39: 227 (1970)

Distribution in Brazil: AM (Bezerra & al. 1970).

Previous report: Lücking (2008).

Trichothelium epiphyllum Müll. Arg., Bot. Jb. 6: 418 (1885)

Distribution in Brazil: MT, PE, PR, RJ, RS, SC, SP (Lücking 2008); MG (Aptroot 2002); AM, BA, ES, PA (McCarthy 2003); RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014); PB (Santos & al. 2016).

Examined material: ISE (50710ar)

Trichothelium intermedium Lücking, Phytol., Horn 44(2): 178 (2004)

Distribution in Brazil: BA, PE (Santos & al. 2016).

Geographical record: New to Amazonas.

Examined material: ISE (50710aq)

Trichothelium minutum (Lücking) Lücking, Nova Hedwigia 66(3–4): 397 (1998)

≡ *Trichothelium epiphyllum* var. *minutum* Lücking 1991

Distribution in Brazil: AM, PE (McCarthy 2003); RO (Aptroot & Cáceres 2014).

Examined material: ISE (50710at)

Trichothelium ulei F. Schill., Hedwigia 67: 280, tab. IV, fig. 5 (1927)

Distribution in Brazil: AM, PA, PE, SC, SP (McCarthy 2003); RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014); BA (Santos & al. 2016).

Examined material: ISE (50710as)

Terricolous and on termitaria:

Coenogonium coppinsii Aptroot & M. Cáceres, Lichenologist 46(3): 369 (2014)

Distribution in Brazil: RO (Aptroot & Cáceres 2014b); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016).

Geographical record: New to Amazonas.

Examined material: ISE (50775)

Endocarpon pallidulum (Nyl.) Nyl., in Hue, Nouv. Arch. Mus. Hist. Nat., Paris, 3 sér. 4: 106 (1892)

≡ *Verrucaria pallidula* Nyl. 1874

Distribution in Brazil: RO (Aptroot & Cáceres 2014); SE (Cáceres & al. 2014); AM (Cáceres & Aptroot 2017); CE (Cáceres & al. 2017a); SC (Aptroot & al. 2017a); BA (Aptroot & Cáceres 2018).

Previous report: Cáceres & Aptroot (2017).

Fellhanera baeomycooides M. Cáceres & Aptroot, Bryologist 120(2): 179 (2017)

Distribution in Brazil: AM (Cáceres & Aptroot 2017).

Previous report: Cáceres & Aptroot (2017).

Fellhanera termitophila Aptroot & M. Cáceres, Lichenologist 46(3): 369 (2013)

Distribution in Brazil: RO (Aptroot & Cáceres 2014b); AM (Cáceres & Aptroot 2017);

MA, PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

Sulzbacheromyces caatingae (Sulzbacher & Lücking) B.P. Hodk. & Lücking, Fungal Diversity 64(1): 176 (2014)

≡ *Lepidostroma caatingae* Sulzbacher & Lücking, in Sulzbacher, Baseia, Lücking, Parmen & Moncada 2012

Distribution in Brazil: PI (Sulzbacher & al. 2012); CE (Alves 2014); SE (Cáceres & al. 2014); AP (Cáceres & Aptroot 2016); PB (Sulzbacher & al. 2012); AM (Cáceres & Aptroot 2017); PA (Aptroot & al. 2017).

Previous report: Cáceres & Aptroot (2017).

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