

Liste der Flechten Nicaraguas

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Zusammenfassung: Die bisher aus Nicaragua bekannt gewordenen 319 Flechtenarten werden mit Angabe der relevanten Literatur aufgelistet.

Abstract: The 319 lichen species known so far from Nicaragua are listed with reference to the relevant literature.

Unter den Staaten Mittelamerikas ist Nicaragua der lichenologisch am wenigsten bearbeitete. In der Auflistung mittelamerikanischer Flechten von IMSHAUG (1956) finden sich nur 22 Angaben aus Nicaragua. Einige nachfolgende Publikationen haben die Artenzahl bis zur Jahrtausendwende auf lediglich 59 erweitert. Im seitenschweren Standardwerk über tropische epiphyllle Flechten (LÜCKING 2008) finden sich nur vier Dokumentationen aus Nicaragua. Die bislang umfangreichste Aufsammlung wurde 2001 vom Autor dieser Zeilen getätigt, der über seine Ergebnisse (260 Arten) in zwei Aufsätzen berichtet hat (BREUSS 2002, 2011). Die Artenzahl ist seitdem nur sehr langsam angewachsen: RIVAS PLATA & al. (2011) vermelden drei Arten, BREUSS & LÜCKING (2015) stellen mit *Eugeniella palleola*, *Graphis paraschiffneri* und *Malmidea cineracea* drei neue Arten aus Nicaragua vor, und LÜCKING & al. (2016a) beschreiben mit *Astrothelium nicaraguense* eine weitere neue Art. In LÜCKING & al. (2016b) finden sich sieben Funde aus Nicaragua, in APTROOT & LÜCKING (2016) ein weiterer. Die jüngste Arbeit über nicaraguanische Flechten liegt von NEUWIRTH (2017) vor, der sieben Neufunde vermerkt. Damit ist die Zahl der aus Nicaragua bekannt gewordenen Flechtenarten auf 319 angewachsen, was der Vielfältigkeit des Landschaftsbildes und der Naturräume des Landes nicht gerecht wird und seiner stiefmütterlichen Behandlung durch Lichenologen – im Unterschied zum Nachbarland Costa Rica – geschuldet ist.

In der folgenden Checkliste werden die Arten – unter Berücksichtigung nomenklatorischer Änderungen jüngerer Datums – angeführt.

Checkliste

Aderkomyces albostrigosus (R.SANT.) LÜCKING, SÉRUS. & VĚZDA (BREUSS 2002 sub *Tricharia albostrigosa*)

- Amandinea diorista* (NYL.) MARBACH (BREUSS 2002)
Amandinea efflorescens (MÜLL.ARG.) MARBACH (BREUSS 2002)
Amandinea multispora (KALB & VĚZDA) MARBACH (BREUSS 2002)
Anisomeridium foliicola R.SANT. & TIBELL (BREUSS 2002)
Anthracotheций libricola (NYL.) MÜLL.ARG. (BREUSS 2002)
Anthracotheций praelustre MÜLL.ARG. (BREUSS 2002)
Arthonia accolens STIRT. (BREUSS 2002)
Arthonia circumtineta MÜLL.ARG. (BREUSS 2002)
Arthonia complanata FÉE (BREUSS 2002)
Arthonia cyanea MÜLL.ARG. (BREUSS 2002)
Arthonia interducta NYL. (HUE 1892)
Arthonia meizomorpha NYL. (BREUSS 2002)
Arthonia pseudopegraphina MATZER (BREUSS 2002)
Aspidothelium cinerascens VAIN. (BREUSS 2002)
Asterothyrium pittieri MÜLL.ARG. (SANTESSON 1952, LÜCKING 2008)
Asterothyrium rotuliforme (MÜLL.ARG.) SÉRUS. (SANTESSON 1952 sub *Gyalectidium rotuliforme*, LÜCKING 2008)
Astrothelium aeneum (ESCHW.) APTROOT & LÜCKING (BREUSS 2002 sub *Trypethelium aeneum*)
Astrothelium bicolor (TAYLOR) APTROOT & LÜCKING (APTROOT & LÜCKING 2016)
Astrothelium diplocarpum NYL. (LÜCKING & al. 2016b)
Astrothelium floridanum ZAHLBR. ex M. CHOISY (LÜCKING & al. 2016b)
Astrothelium megaspermum (MONT.) APTROOT & LÜCKING (BREUSS 2002 sub *Laurera megasperma*)
Astrothelium nicaraguense LÜCKING, M. P. NELSEN & T. OROZCO (LÜCKING & al. 2016a, b)
Astrothelium phlyctaena (FÉE) APTROOT & LÜCKING (BREUSS 2002 sub *Trypethelium ochroleucum*, APTROOT & LÜCKING 2016)
Astrothelium robustum MÜLL.ARG. (LÜCKING & al. 2016b)
Astrothelium subscoria FLAKUS & APTROOT (LÜCKING & al. 2016b)
Astrothelium variolosum (ACH.) MÜLL.ARG. (BREUSS 2002 sub *Trypethelium variolosum*)
Bacidia medialis (TUCK. ex NYL.) DE LESD. (HUE 1892, EKMAN 1996, BREUSS 2002)
Bacidina pallidocarnea (MÜLL.ARG.) VĚZDA (BREUSS 2002)
Bacidina pseudohyphosphorifera (LÜCKING & SÉRUS.) LÜCKING (BREUSS 2002 sub *Woessia pseudohyphosphorifera*)
Bactrospora incana EGEA & TORRENTE (NEUWIRTH 2017)
Bactrospora myriadea (FÉE) EGEA & TORRENTE (EGEA & TORRENTE 1993, BREUSS 2002)
Baculifera imshaugiana (R. C. HARRIS) MARBACH (BREUSS 2002)
Baculifera micromera (VAIN.) MARBACH (BREUSS 2002)
Badimia dimidiata (BAB. ex LEIGHTON) VĚZDA (BREUSS 2002)
Bogoriella hemisphaerica (MÜLL.ARG.) APTROOT & LÜCKING (LÜCKING & al. 2016b)
Bogoriella miculiformis (NYL. ex MÜLL.ARG.) APTROOT & LÜCKING (LÜCKING & al. 2016b)
Buellia solediata (TUCK.) IMSH. (IMSHAUG 1955, NORDIN 2000)
Bulbothrix apophysata (HALE & KUOK.) HALE (BREUSS 2002)

- Bulbothrix suffixa* (STIRT.) HALE (BREUSS 2002)
Byssolecania hymenocarpa (VAINIO) KALB, VĚZDA & LÜCKING (BREUSS 2002)
Byssoloma chlorinum (VAIN.) ZAHLBR. (BREUSS 2011)
Byssoloma discordans (VAIN.) ZAHLBR. (BREUSS 2011)
Byssoloma leucoblepharum (NYL.) VAIN. (BREUSS 2002)
Byssoloma minutissimum KALB & VEZDA (BREUSS 2002)
Byssoloma subdiscordans (NYL.) P. JAMES (BREUSS 2002)
Byssoloma subpolychromum VEZDA (BREUSS 2002)
Calenia depressa MÜLL.ARG. (BREUSS 2002)
Calenia lueckingii HARTMANN (BREUSS 2002)
Calicium hyperelloides NYL. (TIBELL & KALB 1992, TIBELL 1996)
Calicium salicinum PERS. (TIBELL & KALB 1992, TIBELL 1996)
Calopadia foliicola (FEE) VEZDA (BREUSS 2002)
Calopadia fusca (MÜLL.ARG.) VEZDA (BREUSS 2002)
Calopadia lecanorella (NYL.) KALB & VĚZDA (BREUSS 2002)
Calopadia subcoerulescens (ZAHLBR.) VĚZDA (BREUSS 2002)
Caloplaca erythrantha (TUCK.) ZAHLBR. (BREUSS 2002)
Canoparmelia caroliniana (NYL.) ELIX & HALE (HALE 1976 sub *Pseudoparmelia caroliniana*)
Carbacanthographis triphoroides (M. WIRTH & HALE) LÜCKING (BREUSS 2002 sub *Graphina triphora*)
Catillaria endochroma (FÉE) ZAHLBR. (BREUSS 2002)
Chapsa sublilacina (ELLIS & EVERH.) M. CÁCERES & LÜCKING (HALE 1978 sub *Ocellularia sublilacina*)
Chroodiscus coccineus (LEIGHTON) MÜLL.ARG. (BREUSS 2002)
Cladina subtenuis (ABBAYES) HALE & CULB. (AHTI 2000)
Cladonia balfouri CROMBIE (WAINIO 1894)
Cladonia ceratophylla (SW.) SPRENG. (AHTI 2000, BREUSS 2002)
Cladonia chlorophaea (FLÖRKE ex SOMMERF.) SPRENG. (AHTI 2000)
Cladonia didyma (FEE) VAIN. (AHTI 2000)
Cladonia fimbriata (L.) FR. (WAINIO 1894)
Cladonia nana VAIN. (AHTI 2000)
Cladonia subradiata (VAIN.) SANDST. (AHTI 2000)
Cladonia subsquamosa KREMP. (AHTI 2000)
Clathroporina mastoidea (ACH.) R. C. HARRIS (NYLANDER 1863 sub *Porina mastoidea*)
Coccocarpia erythroxyli (SPRENG.) SWINSCOW & KROG (ARVIDSSON 1982, BREUSS 2002)
Coccocarpia palmicola (SPRENG.) ARVIDSSON & D. GALLOWAY (ARVIDSSON 1982, BREUSS 2002)
Coccocarpia pellita (ACH.) MÜLL.ARG. (DODGE 1933, BREUSS 2002)
Coenogonium dilucidum (KREMP.) KALB & LÜCKING (BREUSS 2002 sub *Dimerella dilucida*)
Coenogonium epiphyllum VAIN. (BREUSS 2002 sub *Dimerella epiphylla*)
Coenogonium geralense (P. HENN.) LÜCKING (BREUSS 2002 sub *Dimerella flavicans*)
Coenogonium interpositum NYL. (BREUSS 2002)
Coenogonium isidiosum (BREUSS) RIVAS PLATA, LÜCKING, UMAÑA & CHAVES (BREUSS 2002 sub *Dimerella isidiosa*)

- Coenogonium linkii* EHRENB. (BREUSS 2002)
Coenogonium lisowskii (VĚZDA) LÜCKING (BREUSS 2002 sub *Dimerella lisowskii*)
Coenogonium minimum (MÜLL.ARG.) LÜCKING (BREUSS 2002 sub *Dimerella minima*)
Coenogonium subzonatum (LÜCKING) LÜCKING & KALB (BREUSS 2002 sub *Dimerella subzonata*)
Coenogonium usambarensense (VĚZDA & FARKAS) LÜCKING & KALB (BREUSS 2002 sub *Dimerella usambarensis*)
Constrictolumina cinchonae (ACH.) LÜCKING, M. P. NELSEN & APTROOT (BREUSS 2002 sub *Arthopyrenia cinchonae*)
Cratiria americana (FÉE) KALB & MARBACH (IMSHAUG 1955 sub *Buellia modesta*)
Cratiria obscurior (STIRT.) MARBACH & KALB (MARBACH 2000, BREUSS 2002)
Cresponea flava (VAINIO) EGEA & TORRENTE (BREUSS 2002)
Cresponea melanocheloides (VAIN.) EGEA & TORRENTE (BREUSS 2002)
Crocynia gossypina (SW.) A. MASSAL. (BREUSS 2002)
Cryptothecia phlyctidiformis (MÜLL.ARG.) AWASTHI & K.SINGH (BREUSS 2011)
Cryptothecia subnidulans STIRT. (BREUSS 2002)
Dichosporidium nigrocinctum (EHRENB.) THOR (BREUSS 2002)
Dictyonema sericeum (SW.) BERK. (BREUSS 2002)
Diorygma confluens (FÉE) KALB, STAIGER & ELIX (BREUSS 2002 sub "*Graphina*" *confluens*, NEUWIRTH 2017)
Diorygma poitaei (FÉE) KALB, STAIGER & ELIX (BREUSS 2002 sub *Graphina virginea*, RIVAS PLATA & al. 2011)
Diorygma pruinatum (ESCHW.) KALB, STAIGER & ELIX (NEUWIRTH 2017)
Dirinaria applanata (FÉE) AWASTHI (BREUSS 2002)
Dirinaria aspera (H. MAGN.) AWASTHI (AWASTHI 1975)
Dirinaria confluens (FR.) AWASTHI (BREUSS 2002)
Dirinaria confusa AWASTHI (BREUSS 2002)
Dirinaria papillulifera (NYL.) AWASTHI (AWASTHI 1975, BREUSS 2002)
Dirinaria picta (SW.) CLEM. & SHEAR (BREUSS 2002)
Dirinaria purpurascens (VAIN.) MOORE (AWASTHI 1975)
Echinoplaca diffluens (MÜLL.ARG.) R. SANT. (BREUSS 2002)
Echinoplaca leucotrichoides (VAINIO) R. SANT. (BREUSS 2002)
Echinoplaca pellicula (MÜLL.ARG.) R. SANT. (BREUSS 2002)
Eugeniella palleola BREUSS & LÜCKING (BREUSS & LÜCKING 2015, BREUSS 2002 sub *Bacidia* sp. aff. *psychotriae*)
Fellhanera angustispora LÜCKING (BREUSS 2002)
Gassicurtia ferruginascens (MALME) MARBACH & KALB (NEUWIRTH 2017)
Glyphis cicatricosa ACH. (BREUSS 2002)
Glyphis substriatula (NYL.) STAIGER (NYLANDER 1863, HUE 1892 sub *Graphis substriatula*, STAIGER 2002)
Graphina bakeri ZAHLBR. (ZAHLBRUCKNER 1904)
Graphis acharii FEE (BREUSS 2002 sub *Graphina acharii*)
Graphis anfractuosa (ESCHW.) ESCHW. (BREUSS 2002)
Graphis assimilis NYL. (BREUSS 2002)
Graphis chrysocarpa (RADDI) SPRENG. (BREUSS 2002 sub *Graphina chrysocarpa*, NEUWIRTH 2017)
Graphis conferta ZENKER (BREUSS 2011)

- Graphis consanguinea* (MÜLL.ARG.) LÜCKING (BREUSS 2002 sub *Graphina nylande-
riana*)
Graphis desquamescens (FEE) ZAHLBR. (BREUSS 2002)
Graphis farinulenta MÜLL.ARG. (BREUSS 2011)
Graphis furcata FEE (BREUSS 2011)
Graphis glaucescens FEE (BREUSS 2002)
Graphis hiascens (FEE) NYL. (BREUSS 2002 sub *Graphina hiascens*)
Graphis leptocarpa FEE (BREUSS 2002)
Graphis leptoclada MÜLL.ARG. (BREUSS 2002 sub *Graphis rigidula*)
Graphis librata C. KNIGHT (BREUSS 2002)
Graphis lineola ACH. (BREUSS 2002)
Graphis longula KREMP. (BREUSS 2002)
Graphis ovata (FEE) A. MASSAL. (BREUSS 2011)
Graphis oxyclada MÜLL.ARG. (NEUWIRTH 2017)
Graphis paraschiffneri LÜCKING & BREUSS (BREUSS & LÜCKING 2015)
Graphis cf. *platycarpella* MÜLL.ARG. (BREUSS 2002)
Graphis rhizocola (FEE) LÜCKING & CHAVES (RIVAS PLATA & al. 2011)
Graphis rimulosa (MONT.) TREVIS. (BREUSS 2002)
Graphis rustica KREMP. (BREUSS 2002 sub *Graphis turgidula*)
Graphis vestitoides (FINK) STAIGER (BREUSS 2002 sub *Graphina vestitoides*)
Graphis xanthospora MÜLL.ARG. (BREUSS 2002)
Gyalecta nana (MÜLL.ARG.) TUCK. (BREUSS 2002)
Gyalectidium caucasicum (ELENK. & WORON.) VEZDA (LÜCKING 2008, FERRARO & al.
2001)
Gyalectidium filicinum MÜLL.ARG. (SANTESSON 1952, FERRARO & al. 2001)
Helicobolomyces cinnabarinula (MÜLL.ARG.) WIJAYAW & ERTZ (BREUSS 2002 sub *Ar-
thonia cinnabarinula*)
Hemithecium implicatum (FEE) STAIGER (RIVAS PLATA & al. 2011)
Herpothallon roseocinctum (FR.) APTROOT, LÜCKING & G. THOR (BREUSS 2002 sub
"Chiodecton" *rosaceocinctum*)
Heterodermia albicans (PERS.) SWINSCOW & KROG (BREUSS 2002)
Heterodermia flabellata (FÉE) AWASTHI (BREUSS 2002)
Heterodermia leucomelos (L.) POELT (BREUSS 2002)
Hyperphyscia adglutinata (FLÖRKE) H. MAYRH. & KALB (NEUWIRTH 2017)
Hyperphyscia isidiata MOBERG (BREUSS 2002)
Lasioloma appendiculatum BREUSS (BREUSS 2002)
Lasioloma arachnoideum (KREMP.) R. SANT. (BREUSS 2002)
Lecanographa lyncea (SM.) EGEA & TORRENTA (BREUSS 2011)
Lecanora argentata (ACH.) DEGEL. (BREUSS 2011)
Lecanora coronulans NYL. (BREUSS 2011)
Lecanora helva STIZENB. (BREUSS 2011, NEUWIRTH 2017)
Lecanora tropica ZAHLBR. (BREUSS 2002)
Leiorreuma exaltatum (MONT. & BOSCH) STAIGER (BREUSS 2002 sub *Phaeographis
exaltata*)
Leptogium azureum (SW.) MONT. (BREUSS 2002)
Leptogium chloromelum (SW.) NYL. (BREUSS 2002)

- Leptogium cochleatum* (DICKS.) P. M. JØRG. & P. JAMES (BREUSS 2002, NEUWIRTH 2017)
- Leptogium denticulatum* NYL. (BREUSS 2002)
- Leptogium phyllocarpum* (PERS. in GAUD) MONT. (BREUSS 2002)
- Leptogium standleyi* DODGE (BREUSS 2002)
- Letrouitia vulpina* (TUCK.) HAFELLNER & BELLEM. (BREUSS 2002)
- Leucodecton compunctellum* (NYL.) A. FRISCH (BREUSS 2002 sub *Myriotrema reclusum*)
- Malmidea cineracea* BREUSS & LÜCKING (BREUSS & LÜCKING 2015)
- Malmidea furfurosa* (TUCK. ex NYL.) KALB & LÜCKING (BREUSS 2011)
- Malmidea granifera* (ACH.) KALB, RIVAS PLATA & LUMBSCH (BREUSS 2002 sub *Malcolmiella granifera*)
- Malmidea leptoloma* (MÜLL.ARG.) KALB & LÜCKING (BREUSS 2011)
- Malmidea rhodopis* (TUCK.) KALB, RIVAS PLATA & LUMBSCH (BREUSS 2002 sub *Malcolmiella rhodopis*)
- Malmidea vinosa* (ESCHW.) KALB, RIVAS PLATA & LUMBSCH (BREUSS 2002 sub *Malcolmiella vinosa*)
- Mazosia dispersa* (HEDRICK) R. SANT. (BREUSS 2002)
- Mazosia longispora* LÜCKING & MATZER (BREUSS 2002)
- Mazosia melanophthalma* (MÜLL.ARG.) R. SANT. (BREUSS 2002)
- Mazosia paupercula* (MÜLL.ARG.) R. SANT. (BREUSS 2002)
- Mazosia phyllosema* (NYL.) ZAHLBR. (BREUSS 2002)
- Mazosia pilosa* KALB & VÉZDA (BREUSS 2002)
- Mazosia praemorsa* (STIRTON) R. SANT. (BREUSS 2002)
- Mazosia rotula* (MONT.) A. MASSAL. (BREUSS 2002)
- Megalospora tuberculosa* (FÉE) SIPMAN (BREUSS 2002)
- Melanotheca aggregata* (FÉE) MÜLL.ARG. (HUE 1892)
- Mycoporum lacteum* (ACH.) R. C. HARRIS (BREUSS 2002 sub *Tomasellia lactea*)
- Ocellularia rhodostroma* (MONT.) ZAHLBR. (BREUSS 2002)
- Ocellularia stylothecia* (VAIN.) APTROOT (RIVAS PLATA & al. 2011)
- Opegrapha microsperma* MÜLL.ARG. (BREUSS 2002)
- Opegrapha millegrana* REDINGER (BREUSS 2002)
- Opegrapha primana* NYL. (HUE 1892)
- Oxneriopsis bassiae* (Ach.) S. Y. Kondr., Upreti & J.-S. HUR (BREUSS 2002 sub *Caloplaca bassiae*)
- Parmeliella mariana* (FR.) P. M. JØRG. & D. J. GALLOWAY (BREUSS 2002)
- Parmelinopsis minarum* (VAINIO) ELIX & HALE (BREUSS 2002)
- Parmotrema crinitum* (ACH.) M. CHOISY (HALE 1965 sub *Parmelia crinita*, BREUSS 2002)
- Parmotrema cristiferum* (TAYLOR) HALE (HALE 1965 sub *Parmelia cristifera*, BREUSS 2002)
- Parmotrema dilatatum* (VAINIO) HALE (HALE 1965 sub *Parmelia dilatata*)
- Parmotrema dominicanum* (VAINIO) HALE (HALE 1965 sub *Parmelia dominicana*, BREUSS 2002)
- Parmotrema eciliatum* (NYL.) HALE (HALE 1965 sub *Parmelia eciliata*)
- Parmotrema endosulphureum* (HILLM.) HALE (BREUSS 2002)
- Parmotrema hababianum* (GYELNIK) HALE (HALE 1965 sub *Parmelia hababiana*)

- Parmotrema latissimum* (FÉE) HALE (HALE 1965 sub *Parmelia latissima*, BREUSS 2002)
Parmotrema praesorediosum (NYL.) HALE (HALE 1965 sub *Parmelia praesorediosa*, BREUSS 2002)
Parmotrema rubifaciens (HALE) HALE (HALE 1965 sub *Parmelia rubifaciens*)
Parmotrema tinctorum (DESPR. ex NYL.) HALE (HALE 1965 sub *Parmelia tinctorum*, BREUSS 2002)
Parmotrema xanthinum (MÜLL.ARG.) HALE (HALE 1965 sub *Parmelia xanthina*)
Pertusaria dehiscens MÜLL.ARG. (BREUSS 2011)
Pertusaria depressa (FÉE) MONT. & BOSCH (BREUSS 2002)
Pertusaria flavens NYL. (BREUSS 2011)
Pertusaria sinusmexicani DIBBEN (BREUSS 2011)
Pertusaria tetrathalamia (FÉE) NYL. (BREUSS 2011)
Pertusaria texana MÜLL.ARG. (BREUSS 2002)
Phaeographis caesiodisca STAIGER (BREUSS 2011)
Phaeographis caesiohians (NYL.) LUCH & LÜCKING (BREUSS 2002 sub *Phaeographina caesiohians*)
Phaeographis dendritica (ACH.) MÜLL.ARG. (BREUSS 2002)
Phaeographis epruinosa (REDINGER) STAIGER (BREUSS 2011)
Phaeographis neotricosa REDINGER (BREUSS 2002)
Phaeographis schizoloma (MÜLL.ARG.) MÜLL.ARG. (BREUSS 2002)
Phyllobathelium nigrum R. SANT. & TIBELL (BREUSS 2002)
Phylloporis viridis LÜCKING (BREUSS 2002)
Phyllopsora confusa SWINSCOW & KROG (BRAKO 1991)
Physcia atrostriata MOBERG (BREUSS 2002)
Physcia clementei (SM.) LYNGE (TUCKERMAN 1860 sub *Physcia astroidea*)
Physcia erumpens MOBERG (BREUSS 2002)
Physcia lobulata MOBERG (BREUSS 2002)
Physcia poncinsii HUE (BREUSS 2002)
Physcia undulata MOBERG (BREUSS 2002)
Platythecium colliculosum (MONT.) STAIGER (BREUSS 2002 sub *Graphina colliculosa*)
Porina africana MÜLL.ARG. (BREUSS 2002)
Porina alba (R. SANT.) LÜCKING (BREUSS 2002 sub *Phyllophiale alba*)
Porina dolichophora (NYL.) MÜLL.ARG. (BREUSS 2002)
Porina epimelaena VAIN. ex REDINGER (BREUSS 2002)
Porina epiphylla (FEE) FEE (BREUSS 2002)
Porina farinosa C. KNIGHT (BREUSS 2002, NEUWIRTH 2017)
Porina fulvella MÜLL.ARG. (BREUSS 2002)
Porina limbulata (KREMP.) VAINIO (BREUSS 2002)
Porina lucida R. SANT. (BREUSS 2002)
Porina mirabilis LÜCKING & VĚZDA (BREUSS 2002)
Porina moralesiae LÜCKING (BREUSS 2002)
Porina nucula ACH. (BREUSS 2002)
Porina pseudomalmei BREUSS (BREUSS 2002)
Porina rubescens (LÜCKING) HAFELLNER & KALB (BREUSS 2002 sub *Trichothelium rubescens*)
Porina rudiuscula (NYL.) MÜLL.ARG. (BREUSS 2002)
Porina rufula (KREMP.) VAIN. (BREUSS 2002)

- Porina subcarpineae* MALME (BREUSS 2002)
Porina subepiphylla LÜCKING & VĚZDA (BREUSS 2002)
Porina tetracerae (AFZEL. in ACH.) MÜLL.ARG. (NYLANDER 1863, HUE 1892, BREUSS 2002)
Porina tetramera (MALME) R. SANT. (BREUSS 2002)
Porina tijucana VAIN. (BREUSS 2002)
Porpidia crustulata (ACH.) HERTEL & KNOPH (NEUWIRTH 2017)
Pseudopyrenula cerei VAIN. (BREUSS 2002)
Pseudopyrenula diluta (FÉE) MÜLL.ARG. (BREUSS 2002)
Pseudopyrenula subnudata MÜLL.ARG. (BREUSS 2002)
Pseudosagedia atrocoerulea (MÜLL.ARG.) HAFELLNER & KALB (BREUSS 2002 sub *Porina atrocoerulea*)
Pseudosagedia nitidula (MÜLL.ARG.) HAFELLNER & KALB (BREUSS 2002 sub *Porina nitidula*)
Puiggariella nemathora (MONT.) S. H. JIANG, LÜCKING & J. C. WEI (SANTESSON 1952 sub *Strigula nemathora*, BREUSS 2002 sub *Strigula nemathora*)
Pyrenotrichum splitgerberi MONT. (BREUSS 2002)
Pyrenula bahiana MALME (BREUSS 2002)
Pyrenula cf. *maculata* (R. C. HARRIS) R. C. HARRIS (BREUSS 2002)
Pyrenula chilensis (FÉE) R. C. HARRIS (BREUSS 2011)
Pyrenula cocoes MÜLL.ARG. (BREUSS 2002)
Pyrenula confinis (NYL.) R. C. HARRIS (BREUSS 2011)
Pyrenula corticata (MÜLL.ARG.) R. C. HARRIS (BREUSS 2002)
Pyrenula duplicans (NYL.) APTROOT (HUE 1892 sub *Anthracotheceium duplicans*, BREUSS 2002 sub *Anthracotheceium interponens*)
Pyrenula globifera (ESCHW.) APTROOT (BREUSS 2011)
Pyrenula microcarpa MÜLL.ARG. (BREUSS 2011)
Pyrenula micromma (MONT.) TREVIS. (BREUSS 2011)
Pyrenula ochraceoflava (NYL.) R. C. HARRIS (BREUSS 2002)
Pyrenula pyrenuloides (MONT.) R. C. HARRIS (BREUSS 2002)
Pyrenula quassiaecola (FÉE) FÉE (BREUSS 2011)
Pyrenula schiffneri (Z AHLBR.) APTROOT (BREUSS 2002 sub *Pyrenula falsaria*)
Pyrenula thelomorpha TUCK. (BREUSS 2011)
Pyrrhospora russula (ACH.) HAFELLNER (BREUSS 2002)
Pyxine berteroaana (FÉE) IMSH. (TUCKERMAN 1860 sub *Pyxine meissneri*, IMSHAUG 1957, BREUSS 2002)
Pyxine cocoes (SW.) NYL. (TUCKERMAN 1860, IMSHAUG 1957, BREUSS 2002)
Pyxine endoleuca (MÜLL.ARG.) VAIN. (IMSHAUG 1957)
Pyxine eschweileri (TUCK.) VAIN. (BREUSS 2002)
Pyxine petricola NYL. (BREUSS 2002)
Racoplaca maculata (COOKE & MASSEE) S. H. JIANG, LÜCKING & J. C. WEI (BREUSS 2002 sub *Strigula maculata*)
Ramalina alludens NYL. (BREUSS 2011)
Ramalina camptospora NYL. (LANDRÓN 1972, zit. von KASHIWADANI & KALB 1993)
Ramalina rectangularis NYL. (NEUWIRTH 2017)¹

¹ Nach den beigegeführten Fotos (isidioide Auswüchse fehlend, Thallusquerschnitt v-förmig) kann es sich nicht um *Ramalina rectangularis* handeln

- Ramalina subcalicaris* (NYL.) KASHIW. (BREUSS 2011)
Ramalina usnea (L.) HOWE (BREUSS 2002)
Rhizocarpon reductum TH. FR. (NEUWIRTH 2017)
Rinodina dolichospora MALME (BREUSS 2002)
Sarcographa labyrinthica (ACH.) MÜLL.ARG. (BREUSS 2002)
Segestria octomera (MÜLL.ARG.) R. C. HARRIS (BREUSS 2002 sub *Porina octomera*)
Segestria rubentior (STIRT.) R. C. HARRIS (BREUSS 2002 sub *Porina rubentior*)
Sphinctrina tubaeformis A. MASSAL. (TIBELL 1996)
Sporopodium leprieurii MONT. (BREUSS 2002)
Stereocaulon vesuvianum PERS. (BREUSS 2002)
Stereocaulon virgatum ACH. (LAMB 1977)
Sticta macrophylla DELISE (BREUSS 2002)²
Sticta cf. *swartzii* D. GALLOWAY (BREUSS 2002)
Sticta weigeli (ACH.) VAIN. (BREUSS 2002)
Stigmatochroma gerontoides (STIRT.) MARBACH (IMSHAUG 1955 sub *Buellia gerontoides*)
Strigula antillarum (FÉE) MÜLL.ARG. (BREUSS 2002)
Strigula concreta (FÉE) R. SANT. (BREUSS 2002)
Strigula nitidula MONT. (BREUSS 2002)
Strigula smaragdula FR. (SANTESSON 1952 sub *Strigula elegans*)
Tapellaria albomarginata LÜCKING (BREUSS 2002 sub *Tapellaria bilimbioides* R. SANT., BREUSS 2011)
Tapellaria epiphylla (MÜLL.ARG.) R. SANT. (BREUSS 2002)
Tapellaria nana (FÉE) R.SANT. (BREUSS 2002)
Tapellaria nigrata (MÜLL.ARG.) R. SANT. (BREUSS 2002)
Thalloloma cinnabarinum (FÉE) STAIGER (BREUSS 2002 sub *Graphis* cf. *haemolobata* REDINGER)
Thalloloma hypoleptum (NYL.) STAIGER (BREUSS 2011)
Thelotrema porinoides MONT. & BOSCH (BREUSS 2002)
Tricharia carnea (MÜLL.ARG.) R. SANT. (SANTESSON 1952, BREUSS 2002)
Tricharia dilatata VĚZDA (BREUSS 2002)
Tricharia urceolata (MÜLL.ARG.) R.SANT. (BREUSS 2002)
Tricharia vainioi R. SANT. (BREUSS 2002)
Trichothelium alboatrum VAIN. (BREUSS 2002)
Trichothelium bipindense F. SCHILL.& al. (BREUSS 2002 sub *Trichothelium amazonense*)
Trichothelium epiphyllum MÜLL.ARG. (BREUSS 2002)
Trichothelium minus VAIN. (BREUSS 2002)
Trichothelium sipmanii LÜCKING (BREUSS 2002)
Trypethelium eluteriae SPRENG. (BREUSS 2002, APTROOT & LÜCKING 2016)
Tylophoron moderatum NYL. (TIBELL 1996)
Usnea baileyi (STIRT.) ZAHLBR. (BREUSS 2002)
Usnea perplectata MOT. (BREUSS 2002)
Wirthiotrema glaucopallens (NYL.) RIVAS PLATA & KALB (BREUSS 2002 sub *Thelotrema glaucopallens*)

² Eine Revision der *Sticta*-Belege wird sicherlich andere Artnamen ergeben.

Xanthoparmelia plittii (GYELNIK) HALE (BREUSS 2002)**Literatur**

- AHTI, T., 2000: *Cladoniaceae*. – Flora Neotropica Monograph **78**: 1–362.
- APTROOT, A., LÜCKING, R., 2016: A revisionary synopsis of the *Trypetheliaceae* (Ascomycota; Trypetheliales). – Lichenologist **48**(6): 763–982.
- ARVIDSSON, L., 1982: A monograph of the lichen genus *Coccocarpia*. – Opera Botanica **67**: 1–96.
- AWASTHI, D. D., 1975: A Monograph of the Lichen Genus *Dirinaria*. – Bibl. Lichenol. **2**: 1–108.
- BRAKO, L., 1991: *Phyllopsora* (Bacidiaceae). – Flora Neotropica Monograph **55**: 1–66.
- BREUSS, O., 2002: Flechten aus Nicaragua. – Linzer Biol. Beitr. **34/2**: 1053–1069.
- BREUSS, O., 2011: Weitere Flechtenfunde aus Nicaragua. – Stapfia **95**: 106–109.
- BREUSS, O., LÜCKING, R., 2015: Three new lichen species from Nicaragua, with keys to the known species of *Eugeniella* and *Malmidea*. – Lichenologist **47**(1): 9–20.
- DODGE, C. W., 1933: The foliose and fruticose lichens of Costa Rica. I. – Ann. Missouri Bot. Garden **20**(3): 373–467.
- EGEA, J. M., TORRENTE, P., 1993: The lichen genus *Bactrospora*. – Lichenologist **25**(3): 211–255.
- FERRARO, L. I., LÜCKING, R., SÉRUSIAUX, E., 2001: A world monograph of the lichen genus *Gyalectidium* (Gomphillaceae). – Bot. J. Linn. Soc. **137**: 311–345.
- HALE, M. E., 1965: A monograph of *Parmelia* subgenus *Amphigymnia*. – Contr. US. Nat. Herb. **36**(5): 193–358.
- HALE, M. E., 1976: A monograph of the lichen genus *Pseudoparmelia* LYNGE (Parmeliaceae). – Smithsonian Contrib. Bot. **31**: 1–62.
- HALE, M. E., 1978: A revision of the lichen family *Thelotrema* in Panama. – Smithsonian Contrib. Bot. **38**: 1–60.
- HUE, A. M., 1892: Lichenes exotici a Professore W. NYLANDER descripti vel recogniti. – Paris.
- IMSHAUG, H., 1955: The lichen genus *Buellia* in Central America. – Bryologist **58**: 277–287.
- IMSHAUG, H., 1956: Catalogue of Central American lichens. – Bryologist **59**(2): 69–114.
- IMSHAUG, H., 1957: The lichen genus *Pyxine* in North and Middle America. – Transact. Amer. Microscop. Soc. **76**(3): 246–269.
- KASHIWADANI, H., KALB, K., 1993: The genus *Ramalina* in Brazil. – Lichenologist **25**(1): 1–31.
- LAMB, I. M., 1977: A conspectus of the lichen genus *Stereocaulon* (SCHREB.) HOFFM. – J. Hattori Bot. Lab. **43**: 191–355.
- LÜCKING, R., 2008: Foliicolous Lichenized Fungi. – Flora Neotropica Monograph **103**: 1–866.
- LÜCKING, R. & al. (15 authors), 2016a: A pot-pourri of new species of *Trypetheliaceae* resulting from molecular phylogenetic studies. – Lichenologist **48**(6): 639–660.
- LÜCKING, R. & al. (30 authors), 2016b: A phylogenetic framework for reassessing generic concepts and species delimitation in the lichenized family *Trypetheliaceae* (Ascomycota: Dothideomycetes). – Lichenologist **48**(6): 739–762.
- MARBACH, B., 2000: Corticole und lignicole Arten der Flechtengattung *Buellia* sensu lato in den Subtropen und Tropen. – Bibl. Lichenol. **74**: 1–384.
- NEUWIRTH, G., 2017: Additions to the lichen flora of Nicaragua. – Brit. Lichen Soc. Bull. **121**: 65–73.
- NORDIN, A., 2000: Taxonomy and phylogeny of *Buellia* species with pluriseptate spores (*Lecanorales*, *Ascomycotina*). – Symb. Bot. Upsal. **33** (1): 1–117.
- NYLANDER, W., 1863: Lichenes. – In: TRIANA, J., PLANCHON, J. E.: Prodrum florae Novo-Granatensis. – Ann. Sci. Nat. IV. **19** (5/6): 286–382.
- RIVAS PLATA, E., HERNÁNDEZ, J. E. M., LÜCKING, R., STAIGER, B., KALB, K., CÁCERES, M. E. S., 2011: *Graphis* is two genera: A remarkable case of parallel evolution in lichenized Ascomycota. – Taxon **60**(1): 99–107.
- SANTESSON, R., 1952: Foliicolous lichens 1. A revision of the taxonomy of the obligately foliicolous, lichenized fungi. – Symb. Bot. Ups. **12**(1): 1–590.
- STAIGER, B., 2002: Die Flechtenfamilie *Graphidaceae*. Studien in Richtung einer natürlicheren Gliederung. – Bibl. Lichenol. **85**: 1–526.
- TIBELL, L., KALB, K., 1992: *Calicium* in the tropical and subtropical Americas. – Nova Hedwigia **55**: 11–36.

TIBELL, L., 1996: *Caliciales*. – Flora Neotropica Monograph **69**: 1–78.

TUCKERMAN, E., 1860: Observations on North American and some other lichens. – Proc. Amer. Acad. **4**: 383–407.

WAINIO, E., 1894: Monographia *Cladoniarum* universalis. II. – Acta Soc. Fauna Fl. Fenn. **10**: 1–498.

ZAHLBRUCKNER, A., 1904: Neue Flechten II. – Ann. Mycol. **2**: 267–270.