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Expert reviewers: Clarice Loguercio-Leite, Adriano Afonso Spielmann

## Checklist of lichenized fungi of Santa Catarina State (Brazil)

EMERSON LUIZ GUMBOSKI<sup>1</sup> & SIONARA ELIASARO

<sup>1</sup>[emerson\\_gumboski@yahoo.com.br](mailto:emerson_gumboski@yahoo.com.br)

Departamento de Botânica, Setor de Ciências Biológicas  
Universidade Federal do Paraná  
81531-980, Curitiba, PR, Brazil

**Abstract** — Based on the evaluation of available literature, a list of 355 lichenized fungi species recorded from Santa Catarina State, Brazil is presented. These species are distributed among 109 genera and 45 families. *Parmeliaceae* and *Cladoniaceae* are the most diverse families with 69 and 41 species, respectively.

**Key words** — *Cladonia*, Florianópolis, lichen, *Parmotrema*, Serra Geral

### Introduction

The Brazilian state of Santa Catarina is situated between the parallel 25°57'41" and 29°23'55" S and between the meridians 48°19'37" and 53°50'00" W and has an area of 95,318.30 km<sup>2</sup> (Governo do Estado de Santa Catarina 2010a). The Serra Geral, a southern extension of the Serra do Mar mountains, runs north and south through the state parallel to the Atlantic coast, dividing the state between a narrow coastal plain and a larger plateau region to the west. All of Santa Catarina lies within the Cf area of climate (humid mesothermal), as classified by Koeppen-Geiger. The coastal lowlands are classified Cfa, while most of the planalto is classified Cfb (Noble 1967).

The first and more extensive reports of lichenized fungi collected in Santa Catarina date back to the late 19th-century, when Müller (1891a, b) listed various species collected by Schenk and Ule. Several reports for Santa Catarina have been published since then in some publications, which do not deal specifically with lichens from this state (e.g., Marcelli 1992, Kashiwadani & Kalb 1993, Fleig 1997, Osorio 1997, Ahti 2000, Lücking 2008).

Since the records referred to Santa Catarina lichen flora are scattered over the literature, our main goal is to synthesize the available data and to provide a starting point for further taxonomic and floristic research in this State.

### Materials and methods

This checklist has been compiled based on intensive search of literature references of lichenized fungi recorded from Santa Catarina State, Brazil.

Nomenclature and author names followed the database: Index Fungorum (<http://www.indexfungorum.org/Names/Names.asp>). Genera and species are listed alphabetically inside each family according to Kirk et al. (2008). The word "Type" indicates that the type specimen has been collected in the state and the following acronym indicates the Herbarium where the type is kept. Localities that do not correspond to any valid municipality in the State have been marked with [?]. An interactive political map of Santa Catarina, with many details such as municipalities and population, territorial limits, satellite image, hydrography, altimetry and mountain peaks, is provided by Governo do Estado de Santa Catarina (2010b; SEE REFERENCE FOR URL).

We did not include some references that were made in topics such as overall distribution and references to species which although mentioned for Santa Catarina were collected in Paraná state.

Although this compiled list was carefully revised, minor errors can occur. We plan to regularly update the checklist, so we would be grateful for any remarks concerning errors or omitted data.

## Results

The 355 lichenized fungi species recorded from Santa Catarina are distributed among 109 genera and 45 families. *Parmeliaceae* and *Cladoniaceae* are the most highly represented families with 69 and 41 species, respectively. The genus *Cladonia* has the highest number of species with 40 taxa related.

Based on comparisons with the checklist of lichens from the neighboring state Rio Grande do Sul (Spielmann 2006) that mentioned 912 species, we estimate the number of lichens species in Santa Catarina should be almost three times more than was found in available literature.

The majority of the localities with recorded collections are located in Serra Geral and in coastal plain. Almost nothing is known about the lichens from the plateau region, which accounts for more than 60% of the state area and has the remaining of *Araucaria* forest and the tropical forest of plateau that occupies the western highlands of Santa Catarina, in the Uruguay River Basin. These vegetation types were and still are widely used for timber and fuel, for the expansion of pastures and crops and for the formation of urban sites. This result highlights the need for more serious collecting in Santa Catarina, especially in the western region.

**Checklist of lichenized fungi of Santa Catarina State  
(Brazil):**

***Amandinea* M. Choisy ex Scheid. & M. Mayrhofer (*Caliciaceae*  
Chevall.)**

*Amandinea endochroa* (Malme) Marbach, Bibliothca Lichenol. 74: 66. 2000.

LOCALITY: Florianópolis (Marbach 2000).

*Amandinea errata* Marbach, Bibliothca Lichenol. 74: 68. 2000.

LOCALITY: Florianópolis (Marbach 2000).

*Amandinea microsticta* (Meyen & Flot.) Marbach, Bibliothca Lichenol. 74: 90. 2000.

LOCALITY: Florianópolis (Marbach 2000).

***Arthonia* Ach. (*Arthoniaceae* Rchb.)**

*Arthonia crystallifera* L.I. Ferraro & Lücking, Phytton, Horn 37(1): 63. 1997.

LOCALITY: Barra Velha (Lücking 2008).

*Arthonia gregaria* var. *purpurea* (Eschw.) Müll. Arg., Hedwigia 30: 242. 1891.

LOCALITY: Blumenau (Müller 1891a,b).

*Arthonia cinnabarina* (DC.) Wallr., Fl. crypt. Germ. (Nürnberg) 3: 320. 1831.

LOCALITY: Tubarão (Bevilaqua et al. 2009, as *Coniocarpon cinnabarinum* DC.).

***Arthothelium* A. Massal. (*Arthoniaceae* Rchb.)**

*Arthothelium endoxanthum* Müll. Arg., Flora 71: 44. 1880.

LOCALITY: Tubarão (Müller 1895).

***Aspidothelium* Vain. (*Aspidotheliaceae* Räsänen)**

*Aspidothelium fugiens* (Müll. Arg.) R. Sant., in Thorold, J. Ecol. 40: 129. 1952.

LOCALITY: Águas Mornas (Lücking 2008).

***Asterothyrium* Müll. Arg. (*Asterothyriaceae* Walt. Watson ex R. Sant.)**

*Asterothyrium decipiens* (Rehm) R. Sant., Symb. bot. upsal. 12(1): 325. 1952. Type (S)

LOCALITY: Blumenau (Santesson 1952; Lücking 2008).

*Asterothyrium microsporum* R. Sant., Symb. bot. upsal. 12(1): 320. 1952.

LOCALITY: Águas Mornas (Lücking 2008).

*Asterothyrium monosporum* Müll. Arg., Lichenes Epiphylli Novi: 13. 1890.

LOCALITY: Blumenau (Santesson 1952; Lücking 2008).

*Asterothyrium pittieri* Müll. Arg., Bull. Soc. R. Bot. Belg. 30: 71. 1891.

LOCALITY: Blumenau (Santesson 1952; Lücking 2008).

***Aulaxina* Fée (*Gomphillaceae* Walt. Watson ex Hafellner)**

*Aulaxina quadrangula* (Stirt.) R. Sant., J. Ecol. 40(1): 129. 1952.

LOCALITY: Blumenau (Santesson 1952; Lücking 2008).

***Bacidia* De Not. (*Ramalinaceae* C. Agardh)**

*Bacidia corcovadensis* Malme, Ark. f. Bot. 27A(5): 30. 1935.

LOCALITY: São Francisco do Sul (Marcelli 1992).

*Bacidia millegrana* (Taylor) Zahlbr., in Wawra & Beck, Itin. Princ. S. Coburgi 2: 152. 1888.

LOCALITIES: Águas Mornas (Müller 1891b, as *Patellaria millegrana* (Taylor) Müll. Arg.); Blumenau (Müller 1891b, as *P. millegrana* var. *suffusa* (Fr.) Müll. Arg.).

*Bacidia russeola* (Kremp.) Zahlbr., Cat. Lich. Univers. 4: 239. 1926. [1927].

LOCALITY: Florianópolis (Marcelli 1992).

***Bapalmuia* Sérus. (*Pilocarpaceae* Zahlbr.)**

*Bapalmuia callichroa* (Müll. Arg.) Kalb & Lücking, in Kalb, Lücking & Sérusiaux, Mycotaxon 75: 288. 2000.

LOCALITY: Águas Mornas (Müller 1891b, as *Lopadium callichroum* Müll. Arg.).

***Bathelium* Ach. (*Trypetheliaceae* Zenker)**

*Bathelium irregulare* Müll. Arg., Hedwigia 30: 234. 1891. Type (G?)

LOCALITY: Águas Mornas (Müller 1891b).

***Biatorella* De Not. (*Biatorellaceae* M. Choisy)**

*Biatorella wrightii* (Tuck.) Zahlbr., Cat. Lich. Univers. 5: 46. 1928.

LOCALITY: Florianópolis (Marcelli 1992).

***Brasilia* Lücking, Kalb & Sérus. (*Pilocarpaceae* Zahlbr.)**

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

LOCALITY: Águas Mornas (Lücking 2008).

***Brigantiaea* Trevis. (*Brigantiaeeaceae* Hafellner & Bellem.)**

*Brigantiaea leucoxantha* (Spreng.) R. Sant. & Hafellner, in Hafellner & Bellemère, Nova Hedwigia 35(2 & 3): 246. 1982. [1981].

LOCALITIES: Blumenau, Florianópolis (Müller 1891a, as *Heterothecium leucoxanthum* A. Massal.).

***Buellia* De Not. (*Caliciaceae* Chevall.)**

*Buellia catasema* (Tuck.) Tuck., Syn. N. Amer. Lich. (Boston): 161. 1888.

LOCALITY: Florianópolis (Marcelli 1992).

***Bulbothrix* Hale (*Parmeliaceae* Zenker)**

*Bulbothrix ventricosa* (Hale & Kurok.) Hale, Phytologia 28(5): 481. 1974.

LOCALITY: Bom Jardim da Serra (Benatti 2010).

***Bunodophoron* A. Massal. (*Sphaerophoraceae* Fr.)**

*Bunodophoron australe* (Laurer) A. Massal., Mem. Reale Ist. Veneto Sci. 10: 76. 1861.

LOCALITY: Campos das Antas [?] (Müller 1891b, as *Sphaerophoron australe* Laur.).

*Bunodophoron melanocarpum* (Sw.) Wedin, Mycotaxon 55: 383. 1995.

LOCALITY: Águas Mornas (Müller 1891b, as *Sphaerophoron compressum* Ach.).

### ***Byssoloma Trevis. (Pilocarpaceae Zahlbr.)***

*Byssoloma fadenii* Vězda, Folia geobot. phytotax. 10: 425. 1975.

LOCALITY: Águas Mornas (Lücking 2008).

*Byssoloma leucoblepharum* (Nyl.) Vain., Dansk bot. Ark. 4(11): 23. 1926.

LOCALITY: Águas Mornas (Lücking 2008), Blumenau (Santesson 1952).

*Byssoloma subdiscordans* (Nyl.) P. James, Lichenologist 5: 126. 1971.

LOCALITY: São Francisco do Sul (Santesson 1952, as *B. rotuliforme* (Müll. Arg.) R. Sant.).

*Byssoloma tricholomum* (Mont.) Zahlbr., Cat. Lich. Univers. 2: 569. 1923. [1924].

LOCALITY: Tubarão (Müller 1891a, as *Patellaria cinnamothrix* Müll. Arg.; Santesson 1952; Lücking 2008).

### ***Caleniopsis Vězda & Poelt (Gomphillaceae Walt. Watson ex Hafellner)***

*Caleniopsis conspersa* (Stirt.) Lücking, Sérus. & Vězda, Lichenologist 37(2): 163. 2005.

LOCALITY: Pedras Grandes (Santesson 1952, as *Calenia conspersa* (Stirt.) R. Sant. fide Lücking 2008).

### ***Calicium Pers. (Caliciaceae Chevall.)***

*Calicium lenticulare* Ach., K. Vetensk-Acad. Nya Handl.: 262. 1816.

LOCALITY: Florianópolis (Marcelli 1992, as *C. lenticulare* var. *viride* (Tuck.) Zahlbr.).

*Calicium hyperelloides* Nyl., Syn. Lich. 1: 153. 1860.

LOCALITY: Lauro Müller (Tibell 1996).

***Calopadia* Vězda (*Ectolechiaceae* Zahlbr.)**

*Calopadia foliicola* (Fée) Vězda, Folia geobot. phytotax. 21(2): 215. 1986.

LOCALITY: Florianópolis (Marcelli 1992).

*Calopadia fusca* (Müll. Arg.) Vězda, Folia geobot. phytotax. 21(2): 215. 1986.

LOCALITY: Águas Mornas (Lücking 2008).

*Calopadia perpallida* (Nyl.) Vězda, Folia geobot. phytotax. 21(2): 215. 1986.

LOCALITY: Blumenau (Lücking 2008).

*Calopadia puiggarii* (Müll. Arg.) Vězda, Folia geobot. phytotax. 21(2): 215. 1986.

LOCALITIES: Águas Mornas (Lücking 2008); Tubarão (Müller 1891a, as *Lopadium olivaceum* Müll. Arg.; Santesson 1952, as *L. puiggarii* (Müll. Arg.) Zahlbr.)

***Caloplaca* Th. Fr. (*Teloschistaceae* Zahlbr.)**

*Caloplaca crocea* (Kremp.) Hafellner & Poelt, J. Hattori bot. Lab. 46: 19. 1979.

LOCALITY: Águas Mornas (Müller 1891b, as *Callopisma xanthaspis* (Kremp.) Müll. Arg.).

*Caloplaca erythrantha* (Tuck.) Zahlbr., Sitzungsber. kaiserl. Akad. Wiss. Wien, Math.-Naturw. Cl. III, Abt. I: 409. 1902.

LOCALITIES: Laguna (Marcelli 1992); Florianópolis (Müller 1891a, as *Callopisma erythranthum* (Tuck.) Müll. Arg.; Marcelli 1992).

***Canoparmelia* Elix & Hale (*Parmeliaceae* Zenker)**

*Canoparmelia carneopruinata* (Zahlbr.) Elix & Hale, in Elix, Johnston & Verdon, Mycotaxon 27: 278. 1986.

Without specific locality (Hale 1976a, as *Pseudoparmelia carneopruinata* (Zahlbr.) Hale).

*Canoparmelia caroliniana* (Nyl.) Elix & Hale, in Elix, Johnston & Verdon, Mycotaxon 27: 278. 1986.

Without specific locality (Hale 1976a, as *Pseudoparmelia caroliniana* (Nyl.) Hale).

*Canoparmelia rupicola* (Lyngé) Elix, Bibliotheca Lichenol. 80: 211. 2001.

Without specific locality (Hale 1976a, as *Pseudoparmelia rupicola* (Lyngé) Hale).

*Canoparmelia texana* (Tuck.) Elix & Hale, in Elix, Johnston & Verdon, Mycotaxon 27: 279. 1986.

Without specific locality (Hale 1976a, as *Pseudoparmelia texana* (Tuck.) Hale).

***Chapsa* A. Massal. (*Thelotremataceae* Stizenb.)**

*Chapsa leprocarpa* (Nyl.) Frisch, Bibliotheca Lichenol. 92: 108. 2006.

LOCALITY: Florianópolis (Frisch 2006).

***Chroodiscus* (Müll. Arg.) Müll. Arg. (*Thelotremataceae* Stizenb.)**

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

LOCALITY: Tubarão (Santesson 1952; Redinger 1936, as *Phyllophtharmaria coccinea* (Leight.) Zahlbr.).

*Chroodiscus rutilus* (Stirt.) Müll. Arg., Lichenes Epiphylli Novi: 19. 1890.

LOCALITY: Tubarão (Müller 1891a, as *Chroodiscus rutilans* Müll. Arg.).

***Chrysothrix* Mont. (*Chrysothricaceae* Zahlbr.)**

*Chrysothrix chlorina* (Ach.) J.R. Laundon, Lichenologist 13(2): 106. 1981.

LOCALITY: Tubarão (Bevilaqua et al. 2009).

***Cladia* Nyl. (*Cladoniaceae* Zenker)**

*Cladia aggregata* (Sw.) Nyl., Recogn. Ram. 69: 167. 1870.



LOCALITIES: Águas Mornas, Serra Geral [?] (Müller 1891a, b, as *Clathrina aggregata* (Eschw.) Müll. Arg.); without specific locality (Ahti 2000).

***Cladonia* P. Browne (*Cladoniaceae* Zenker)**

*Cladonia ahtii* S. Stenroos, Ann. bot. fenn. 26(3): 252. 1989.

LOCALITIES: Laguna (Osorio 1997); Serra Geral [?] (Ahti 2000).

*Cladonia cariosa* (Ach.) Spreng., Syst. veg., Edn 16 4(1 Lichenes): 272. 1827.

Without specific locality (Müller 1891a, as *C. cariosa* Ach. var. *umbellifera*).

*Cladonia ceratophylla* (Sw.) Spreng., Syst. veg., Edn 16 4(1 Lichenes): 271. 1827.

LOCALITIES: Florianópolis, Joinville, Seara (Müller 1891b).

*Cladonia chondrotypa* Vain., Acta Soc. Fauna Fl. Fenn. 4: 449. 1887.

LOCALITY: Lages (Ahti 2000).

*Cladonia confusa* R. Sant., Ark. Bot. 30A(10): 13. 1942.

LOCALITIES: São Francisco do Sul (Müller 1891a, as *C. pycnoclada* Nyl.; Ahti 2000); Águas Mornas, Itapema, Florianópolis, Garuva, São Joaquim, Urubici (Ahti 2000, as *C. confusa* f. *confusa* R. Sant.); without specific locality (Ahti 2000, as *C. confusa* f. *bicolor* (Müll. Arg.) Ahti & DePriest).

*Cladonia corniculata* Ahti & Kashiw., in Inoue, Studies on Cryptogams in Southern Chile (Tokyo): 136. 1984.

LOCALITY: Blumenau, Joinville (Ahti 2000).

*Cladonia crispatula* (Nyl.) Ahti, Lichenologist 9(1): 14. 1977.

LOCALITIES: Águas Mornas (Müller 1891b, as *Cladonia rangiferina* var. *crispatula* Nyl.); Florianópolis, Serra Geral [?] (Müller 1891a,b, as *Cladonia gorgonina* Vain.); Barra Velha, Curitiba, Lages, Laguna and Joinville (Ahti 2000).

*Cladonia dactylota* Tuck., Amer. J. Sci. Arts, Ser. 2 28. 1859.

LOCALITY: Joinville (Ahti 2000).

*Cladonia dendroides* (Abbayes) Ahti, Ann. Bot. Soc. Zool.-Bot. Fenn. "Vanamo" 32 (1): 29. 1961.

LOCALITY: Without specific locality (Ahti 2000, as *Cladina dendroides* (Abbayes) Ahti).

*Cladonia didyma* (Fée) Vain., Acta Soc. Fauna Flora fenn. 4: 137. 1887.

LOCALITIES: Blumenau, São Francisco do Sul, Tubarão (Müller 1891a, as *C. muscigena* Eschw.; Ahti 2000); Florianópolis, Joinville (Müller 1891b recorded as *C. muscigena*; Ahti 2000); Ilhota, Seara (Ahti 2000).

*Cladonia fimbriata* var. *antilopaea* (Delise) Müll. Arg., Flora, Jena 65: 294. 1882.

LOCALITY: São Francisco do Sul (Müller 1891a). Probably a misidentification for Brazil (Ahti 2000).

*Cladonia furcata* (Huds.) Schrad., Spicil. fl. germ. 1: 107. 1794.

LOCALITIES: Campos das Antas [?] (Müller 1891b); Bom Jardim da Serra, Urubici (Ahti 2000).

*Cladonia furfuracea* Vain., Acta Soc. Fauna Fl. Fenn. 10: 375. 1894.

LOCALITY: Florianópolis (Marcelli 1992).

*Cladonia grayi* G. Merr. ex Sandst., Sandstede: Clad. Exs.: no. 1847. 1929.

LOCALITY: Lages (Ahti 2000).

*Cladonia latiloba* Ahti & Marcelli, in Ahti, Fl. Neotrop., Monogr. 78: 249. 2000.

LOCALITY: São Francisco do Sul (Ahti 2000), Itajaí (Müller 1891b, as *C. insignis* Nyl. fide Ahti 2000).

*Cladonia macilenta* Hoffm., Deutschl. Fl., Zweiter Theil (Erlangen): 126. 1796.

LOCALITIES: Joinville, Lages (Ahti 2000).

*Cladonia miniata* G. Mey., Nebenst. Beschaeft. Pflanzenk. 149. 1825.

LOCALITY: Campos das Antas [?] (Müller 1891b).

*Cladonia nana* Vain. Acta Soc. Fauna Fl. Fenn. 10: 23. 1894.

LOCALITIES: Blumenau, Joinville (Ahti 2000).

*Cladonia ochracea* L. Scriba, in Sandstede, Cladon. Exs. 1006. 1923.

LOCALITIES: Bom Jardim da Serra, Timbó (Ahti 2000).

*Cladonia ochrochlora* Flörke, De Cladoniis, Difficillimo lichenum genere, Commentatio nova (Rostock): 75. 1828.

LOCALITY: Tubarão (Müller 1891a).

*Cladonia parvipes* (Vain.) S. Stenroos, in Ahti, Fl. Neotrop., Monogr. 78: 221. 2000.

LOCALITY: Lages (Ahti 2000).

*Cladonia peziziformis* (With.) J.R. Laundon, Lichenologist 16(3): 223. 1984.

LOCALITIES: Blumenau, Bom Jardim da Serra (Ahti 2000); Campos das Antas [?] (Müller 1891b, as *C. cariosa* Flk. fide Ahti 2000).

*Cladonia phyllophora* Ehrh. ex Hoffm., Deutschl. Fl., Zweiter Theil (Erlangen): 126. 1796.

LOCALITIES: Águas Mornas, Campos das Antas [?] (Müller 1891b, as *C. degenerans* var. *pleolepis* Flk.). Probably a misidentification for South America (Ahti 2000).

*Cladonia pityrophylla* Nyl., Flora 57: 70. 1874.

LOCALITIES: Laguna (Osorio 1997); São Francisco do Sul (Ahti 2000).

*Cladonia pleurota* (Flörke) Schaer., Enum. critic. lich. europ. (Bern): 186. 1850.

LOCALITY: Campos das Antas [?] (Müller 1891b).

*Cladonia polystomata* Ahti & Sipman, in Ahti, Fl. Neotrop., Monogr. 78: 294. 2000.

LOCALITY: Barra Velha (Ahti 2000).

*Cladonia ramulosa* (With.) J.R. Laundon, Lichenologist 16(3): 225. 1984.

LOCALITY: Campos Novos (Ahti 2000).

*Cladonia rappii* A. Evans, Trans. Ky Acad. Sci. 38: 297. 1952.

LOCALITIES: Mafra, Rancho Queimado and São Bento do Sul (Ahti 2000).

*Cladonia secundana* Nyl., Flora 57: 71. 1874.

LOCALITIES: Lages, Florianópolis (Ahti 2000); São Francisco do Sul (Müller 1891a, as *C. insignis* Nyl. fide Ahti 2000).

*Cladonia signata* (Eschw.) Vain., Meddeland Soc. Fauna Fl. Fenn. 14: 32. 1886.

LOCALITIES: Florianópolis (Müller 1891b, as *C. pycnocarpa* Nyl. fide Ahti 2000); without specific locality (Ahti 2000).

*Cladonia solida* Vain., Acta Soc. Fauna Fl. Fenn. 7 (1): 246. 1890.

LOCALITY: Blumenau (Müller 1891a,b, as *C. uleana* Müll. Arg.; Ahti 2000); São Francisco do Sul (Ahti 2000).

*Cladonia sphacelata* Vain., Acta Soc. Fauna Fl. Fenn. 4: 456. 1887.

LOCALITY: Florianópolis (Müller 1891a, as *C. rangiformis* var. *foliosa* Vain. fide Ahti 2000).

*Cladonia squamosa* Hoffm., Deutschl. Fl., Zweiter Theil (Erlangen): 125. 1796.

LOCALITIES: Serra Geral [?], Joinville (Ahti 2000).

*Cladonia subcariosa* Nyl., Flora 59: 560. 1876.

LOCALITY: Lages (Ahti 2000).

*Cladonia subdelicatula* Vain. ex Asahina, J. Jap. Bot. 38: 1. 1963.

LOCALITY: Itapema (Ahti 2000).

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

LOCALITIES: Águas Mornas, Barra Velha, Blumenau, Joinville, Rancho Queimado, Sombrio, Timbó (Ahti 2000).

*Cladonia subsquamosa* Kremp., in Warming, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 5: 336. 1873.

LOCALITIES: Laguna (Marcelli 1992), Águas Mornas, Blumenau, Florianópolis, Joinville (Ahti 2000).

*Cladonia substellata* Vain., Acta Soc. Fauna Fl. Fenn. 4: 271. 1887.

LOCALITIES: Águas Mornas (Müller 1891b, as *C. peltastica* (Nyl.) Müll. Arg. fide Ahti 2000); Florianópolis (Ahti 2000).

*Cladonia turgidior* (Nyl.) Ahti, Lichenologist 9(1): 14. 1977.

LOCALITIES: Florianópolis (Müller 1891b, as *C. gorgonina* Vain. fide Ahti 2000).

***Coccocarpia* Pers. (*Coccocarpiaceae* Henssen)**

*Coccocarpia erythroxyli* (Spreng.) Swinscow & Krog, Norw. Jl Bot. 23: 254. 1976.

LOCALITIES: Laguna, São Francisco do Sul (Marcelli 1992).

*Coccocarpia filiformis* Arv., Op. bot. 67: 62. 1983. [1982]

LOCALITY: Florianópolis (Marcelli 1992).

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

LOCALITY: Águas Mornas (Müller 1891b, as *C. pellita* var. *isidiophylla* Müll. Arg.).

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

LOCALITY: Joinville (Müller 1891b, as *C. pellita* var. *blepharocarpa* Müll. Arg.; Santesson 1952).

*Coccocarpia smaragdina* Pers., in Gaudichaud-Beaupré in Freycinet, Voy. Uranie. Bot. 5: 206. 1827. [1826-1830].

LOCALITIES: Águas Mornas, Rodeio (Müller 1891b, as *C. pellita* var. *smaragdina* Müll. Arg.); Florianópolis (Marcelli 1992).

***Coenogonium* Ehrenb. (*Coenogoniaceae* Stizenb.)**

*Coenogonium geralense* (P. Henn.) Lücking, Fl. Neotrop., Monogr. 103: 579. 2008. Type (G, S)

LOCALITIES: Serra Geral [?], São Francisco do Sul (Lücking 2008).

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

LOCALITY: Águas Mornas (Lücking 2008).

*Coenogonium implexum* Nyl., Anns Sci. Nat., Bot., sér. 4 16: 92. 1862.

LOCALITY: Águas Mornas (Müller 1891b).

*Coenogonium leprieurii* (Mont.) Nyl., *Annls Sci. Nat., Bot.*, sér. 4 16: 89. 1862.

LOCALITIES: Águas Mornas, Florianópolis, Joinville (Müller 1891b); Tubarão (Müller 1891a).

*Coenogonium linkii* Ehrenb., in Nees, *Horae Phys. Berol.*: 120, pl. 27. 1820. Type (?)

LOCALITY: Águas Mornas (Müller 1891b).

*Coenogonium luteum* (Dicks.) Kalb & Lücking, in Lücking & Kalb, *Bot. Jb.* 122(1): 32. 2000.

LOCALITY: Águas Mornas (Müller 1891b, as *Biatorinopsis lutea* Müll. Arg.).

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

LOCALITY: Águas Mornas (Lücking 2008 ) and São Francisco do Sul (Santesson 1952 recorded as *Dimerella epiphylla* (Müll. Arg.) Malme fide Lücking 2008).

*Coenogonium subvirescens* Nyl., *Flora, Jena* 57: 72. 1874.

LOCALITY: Blumenau (Müller 1891a).

### ***Collema* Weber ex F.H. Wigg. (*Collemataceae* Zenker)**

*Collema nigrescens* (Huds.) DC., in Lamarck & de Candolle, *Fl. franç.*, Edn 3 (Paris) 2: 384. 1805.

LOCALITIES: Águas Mornas (Müller 1891b, as *Synechoblastus nigrescens* Anzi); Blumenau (Müller 1891a, as *S. nigrescens*).

### ***Cratiria* Marbach (*Caliciaceae* Chevall.)**

*Cratiria melanochlora* (Kremp.) Marbach, *Bibliothca Lichenol.* 74: 183. 2000.

LOCALITY: Florianópolis (Marcelli 1992, as *Buellia melanochlora* (Kremp.) Müll. Arg.; Marbach 2000).

*Cratiria obscurior* (Stirt.) Marbach & Kalb, in Marbach, *Bibliothca Lichenol.* 74: 186. 2000.

LOCALITY: Florianópolis (Marbach 2000).

***Dibaeis* Clem. (*Icmadophilaceae* Triebel)**

*Dibaeis absoluta* (Tuck.) Kalb & Gierl, in Gierl & Kalb, *Herzogia* 9(3-4): 613. 1993.

LOCALITY: Blumenau (Müller 1891b, as *Baeomyces absolutus* var. *subsessilis* Tuck.).

***Dictyonema* C. Agardh ex Kunth (*Atheliaceae* Jülich)**

*Dictyonema glabratum* (Spreng.) D. Hawksw., *Lichenologist* 20(1): 101. 1988.

LOCALITIES: Águas Mornas (Müller 1891a, as *Cora pavonina* Fr.); Blumenau (Müller 1891a,b, as *C. pavonina*; Müller 1891b, as *C. reticulifera* Vain.); Florianópolis (Marcelli 1992); Joinville (Müller 1891b, as *C. reticulifera*); Serra Geral [?] (Müller 1891a, as *C. pavonina*).

*Dictyonema sericeum* (Sw.) Berk., *London J. Bot.* 2: 639. 1843.

LOCALITIES: Águas Mornas (Müller 1891b, as *Laudatea schenkiana* Müll. Arg.); Blumenau (Müller 1891b, as *Dichonema sericeum* Montg.); Florianópolis (Marcelli 1992).

***Echinoplaca* Fée (*Gomphillaceae* Walt. Watson ex Hafellner)**

*Echinoplaca leucotrichoides* (Vain.) R. Sant., in Thorold, J. *Ecol.* 40: 129. 1952.

LOCALITY: Águas Mornas (Lücking 2008).

***Enterographa* Fée (*Roccellaceae* Chevall.)**

*Enterographa quassiicola* Fée, *Essai Crypt. Exot. (Paris)* 1: 57. 1825. [1824].

LOCALITY: Florianópolis (Marcelli 1992).

***Erioderma* Fée (*Pannariaceae* Tuck.)**

*Erioderma wrightii* Tuck., *Amer. Jour. Sci. and Arts*, ser. 2, 25: 423. 1858.

LOCALITY: Águas Mornas (Müller 1891b).

***Fellhanera* Vězda (*Pilocarpaceae* Zahlbr.)**

*Fellhanera bouteillei* (Desm.) Vězda, *Folia geobot. phytotax.* 21(2): 214. 1986.

LOCALITY: Águas Mornas (Lücking 2008).

*Fellhanera rhapsidophylli* (Rehm) Vězda, Folia geobot. phytotax. 21(2): 214. 1986.

LOCALITY: Águas Mornas (Lücking 2008).

*Fellhanera semecarpi* (Vain.) Vězda, Folia geobot. phytotax. 21(2): 215. 1986.

LOCALITY: Barra Velha (Lücking 2008).

*Fellhanera sublecanorina* (Nyl.) Vězda, Lichenes Selecti Exsiccati, Fascicle 87 (nos 2151-2175) (Průhonice): 2, no. 2156. 1987.

LOCALITY: Águas Mornas (Lücking 2008).

### ***Fissurina* Fée (*Graphidaceae* Dumort.)**

*Fissurina columbina* (Tuck.) Staiger, Bibliothca Lichenol. 85: 130. 2002.

LOCALITY: Florianópolis (Staiger 2002).

### ***Flavoparmelia* Hale (*Parmeliaceae* Zenker)**

*Flavoparmelia papillosa* (Lyng ex Gyeln.) Hale, Mycotaxon 25(2): 605. 1986.

Without specific locality (Hale 1976a, as *Pseudoparmelia papillosa* (Lyng ex Gyeln.) Hale).

### ***Fluctua* Marbach (*Caliciaceae* Chevall.)**

*Fluctua megapotamica* (Malme) Marbach, Bibliothca Lichenol. 74: 208. 2000.

LOCALITY: Florianópolis (Marbach 2000).

### ***Gassicurtia* Fée (*Caliciaceae* Chevall.)**

*Gassicurtia acidobaeomyceta* Marbach, Bibliothca Lichenol. 74: 214. 2000. Type (herb. Kalb)

LOCALITY: Florianópolis (Marbach 2000).

### ***Glyphis* Ach. (*Graphidaceae* Dumort.)**

*Glyphis cicatricosa* Ach., Syn. Lich. 40: 303. 1814.

LOCALITIES: Blumenau (Müller 1891b, as *Glyphis confluens* Zenck. f. *analoga* Nyl.); Tubarão (Bevilaqua et al. 2009).



***Gomphillus* Nyl. (*Gomphillaceae* Walt. Watson ex Hafellner)**

*Gomphillus calycioides* (Delise ex Duby) Nyl., Mém. Soc. natn. Sci. nat. math. Cherbourg 2: 15. 1854.

LOCALITY: Águas Mornas (Müller 1891b).

***Graphina* Müll. Arg. (*Graphidaceae* Dumort.)**

*Graphina acharii* (Fée) Müll. Arg., Mém. Soc. Phys. Hist. nat. Genève 29(8): 38. 1887.

LOCALITIES: Águas Mornas (Müller 1891b), Blumenau (Müller 1891a,b).

*Graphina chrysoarpa* (Raddi) Müll. Arg., Flora, Jena 63(3): 41. 1880.

LOCALITY: Blumenau (Müller 1891a); Joinville (Müller 1891b).

*Graphina contorta* Müll. Arg., Revue mycol., Toulouse 9: 81. 1887.

LOCALITY: Águas Mornas (Müller 1891b).

*Graphina sophistica* (Nyl.) Müll. Arg., Flora, Jena 63: 23. 1880.

LOCALITY: Águas Mornas (Müller 1891b).

***Graphis* Adans. (*Graphidaceae* Dumort.)**

*Graphis* cf. *scripta* (L.) Ach., K. Vetensk-Acad. Nya Handl. 28: 145. 1809.

LOCALITIES: Florianópolis, São Francisco do Sul (Marcelli 1992).

*Graphis duplicata* Ach., Syn. Lich.: 81. 1814.

LOCALITY: Águas Mornas (Müller 1891b).

*Graphis grammitis* Fée, Essai Crypt. Exot. (Paris) 1: 47. 1825. [1824].

LOCALITIES: Florianópolis, São Francisco do Sul (Marcelli 1992).

*Graphis homichlodes* Redinger, Ark. Bot. 27A(3): 61

LOCALITY: São Francisco do Sul (Marcelli 1992).

*Graphis pavoniana* Fée, Essai Crypt. Exot. (Paris) 1: 40. 1825. [1824].

LOCALITY: Florianópolis (Marcelli 1992).

*Graphis rimulosa* (Mont.) Trevis., Spighe Paglie: 11. 1853.

LOCALITIES: Águas Mornas, Blumenau (Müller 1891b); Tubarão (Müller 1895).

*Graphis striatula* (Ach.) Spreng., in Zahlbruckner, Cat. Lich. Univers. 2: 354. 1927.

LOCALITY: Blumenau (Müller 1891b); Pedras Grandes (Müller 1895).

***Gyalectidium* Müll. Arg. (*Gomphillaceae* Walt. Watson ex Hafellner)**

*Gyalectidium filicinum* Müll. Arg., Flora, Jena 64: 9. 1881.

LOCALITIES: Águas Mornas (Lücking 2008); Barra Velha (Ferraro 2006); Blumenau (Santesson 1952; Ferraro 2006); Piratuba (Ferraro 2006).

***Haematomma* A. Massal. (*Haematommataceae* Hafellner)**

*Haematomma africanum* (J. Steiner) C.W. Dodge, Beih. Nova Hedwigia 38: 39. 1971.

LOCALITY: Serra Geral [?] (Staiger & Kalb 1995).

*Haematomma puniceum* (Sw.) A. Massal., Atti Inst. Veneto Sci. lett., ed Arti, Sér. 3, 5: 253. 1860.

LOCALITIES: Florianópolis (Müller 1891a, as *Lecania punicea* (Ach.) Müll. Arg.); Águas Mornas (Müller 1891b, as *L. punicea*).

***Hafellia* Kalb, H. Mayrhofer & Scheid. (*Caliciaceae* Chevall.)**

*Hafellia demutans* (Stirt.) Pusswald, in Marbach, Bibliothca Lichenol. 74: 259. 2000.

LOCALITY: Florianópolis (Marbach 2000).

*Hafellia tetrapla* (Nyl.) Pusswald, in Marbach, Bibliothca Lichenol. 74: 288. 2000.

LOCALITY: Florianópolis (Marbach 2000).

***Herpothallon* Tobler (*Arthoniaceae* Rchb.)**

*Herpothallon rubrocinctum* (Ehrenb.) Aptroot, Lücking & G. Thor, in Aptroot et al., Bibliothca Lichenol. 99: 61. 2009.

LOCALITIES: Águas Mornas (Müller 1891b, as *Chiodecton sanguineum* (Sw.) Vain.); Laguna (Osorio 1997, as *Cryptothecia rubrocincta* (Ehrenb.)

Thor); Florianópolis (Marcelli 1992, as *Herpothallon sanguineum* (Sw.) Tobler).

***Heterodermia* Trevis. (*Physciaceae* Zahlbr.)**

*Heterodermia albicans* (Pers.) Swinscow & Krog, Lichenologist 8(2): 113. 1976.

LOCALITIES: Laguna, Florianópolis, São Francisco do Sul (Marcelli 1992, as *Physcia albicans* var. *hypomela* (Tuck.) J.W. Thomson).

*Heterodermia comosa* (Eschw.) Follmann & Redón, Willdenowia 6: 446. 1972.

LOCALITIES: Águas Mornas, Blumenau, Florianópolis (Müller 1891b, as *Anaptychia comosa* Trev.); Tubarão (Müller 1891a, as *A. comosa*).

*Heterodermia flabellata* (Fée) D.D. Awasthi, Geophytology 3: 113. 1973.

Without specific locality (Kurokawa 1962, as *Anaptychia flabellata* (Fée) A. Massal. var. *flabellata*).

*Heterodermia galactophylla* (Tuck.) W.L. Culb., Bryologist 69: 482. 1967.

LOCALITY: Florianópolis (Marcelli 1992).

*Heterodermia hypoleuca* (Mühl.) Trevis., Atti Soc. ital. Sci. nat. (Modena) 11: 615. 1868.

LOCALITIES: Águas Mornas, Itajaí (Müller 1891b, as *Anaptychia speciosa* Vain. var. *hypoleuca* Müll. Arg.); Serra Geral [?] (Müller 1891a, as *A. speciosa* var. *hypoleuca*).

*Heterodermia japonica* (M. Satô) Swinscow & Krog, Lichenologist 8: 122. 1976.

LOCALITIES: Águas Mornas (Müller 1891b, as *Anaptychia speciosa* var. *sorediifera* Müll. Arg.; Lynge 1924, as *A. sorediifera* (Müll. Arg.) Du Rietz & Lynge); Laguna, Florianópolis, São Francisco do Sul (Marcelli 1992).

*Heterodermia leucomela* (L.) Poelt, Nova Hedwigia 9: 31. 1965.

LOCALITIES: Serra Geral [?] (Müller 1891a, as *Anaptychia leucomelaena* Vain.); Blumenau (Müller 1891a, as *A. leucomelaena* var. *subcomosa*; Müller 1891b, as *A. leucomelaena*; Lynge 1924, as *A. leucomelaena*); Águas Mornas, São Bento do Sul (Müller 1891b, as *A. leucomelaena*).

*Heterodermia obscurata* (Nyl.) Trevis., Nuovo Giorn. Bot. Ital. 1: 114. 1869.

LOCALITY: Laguna (Marcelli 1992).

*Heterodermia podocarpa* (Bél.) D.D. Awasthi, Geophytology 3: 114. 1973.

LOCALITY: Águas Mornas (Müller 1891b, as *Anaptychia podocarpa* Trevis.).

*Heterodermia tremulans* (Müll. Arg.) W.L. Culb., Bryologist 69: 485. 1967.

LOCALITY: Florianópolis (Marcelli 1992).

***Hypotrachyna* (Vain.) Hale (*Parmeliaceae* Zenker)**

*Hypotrachyna brasiliana* (Nyl.) Hale, Phytologia 28(4): 340. 1974.

Without specific locality (Hale 1975).

*Hypotrachyna contradicta* (Hale) Hale, Smithson. Contr. bot. 25: 29. 1975.

Without specific locality (Hale 1975).

*Hypotrachyna imbricatula* (Zahlbr.) Hale, Smithson. Contr. bot. 25: 41. 1975.

Without specific locality (Hale 1975).

*Hypotrachyna intercalanda* (Vain.) Hale, Smithson. Contr. bot. 25: 42. 1975.

Without specific locality (Hale 1975).

*Hypotrachyna laevigata* (Sm.) Hale, Smithson. Contr. bot. 25: 44. 1975.

LOCALITIES: Serra Geral [?] (Müller 1891a, as *P. laevigata* Ach. var. *gracilis* Müll. Arg.); Campos das Antas [?] (Müller 1891b, as *P. laevigata*).

*Hypotrachyna livida* (Taylor) Hale, Smithson. Contr. bot. 25: 45. 1975.

Without specific locality (Hale 1975).

*Hypotrachyna palmarum* (Lynge) Hale, Smithson. Contr. bot. 25: 52. 1975.

Without specific locality (Hale 1975).

*Hypotrachyna peruviana* (Nyl.) Hale, Smithson. Contr. bot. 25: 54. 1975.

Without specific locality (Hale 1975).

*Hypotrachyna primitiva* Hale & López-Fig., Bryologist 81(4): 592. 1979. [1978].

LOCALITY: Lages (Eliasaro et al. 1998).

*Hypotrachyna protenta* Hale, Smithson. Contr. bot. 25: 58. 1975.

Without specific locality (Hale 1975).

***Lecanora* Ach. (*Lecanoraceae* Körb.)**

*Lecanora chlorotera* Nyl., Bull. Soc. linn. Normandie, sér. 2, 6: 274. 1872.

LOCALITIES: Laguna, Florianópolis (Marcelli 1992).

*Lecanora subfusca* var. *subgranulata* Nyl., Anns Sci. Nat., Bot., sér. 5, 7: 310. 1867.

LOCALITY: Blumenau (Müller 1891b).

***Leiorreuma* Eschw. (*Graphidaceae* Dumort.)**

*Leiorreuma dilatatum* (Vain.) Staiger, Bibliothca Lichenol. 85: 296. 2002.

LOCALITY: Florianópolis (Staiger 2002).

***Leptogium* (Ach.) Gray (*Collemataceae* Zenker)**

*Leptogium adpressum* Nyl., Syn. Lich. 1(1): 131. 1858.

LOCALITY: Águas Mornas (Müller 1891b).

*Leptogium austroamericanum* (Malme) C.W. Dodge, Ann. Mo. bot. Gdn 20: 419. 1933.

LOCALITIES: Laguna, Florianópolis, São Francisco do Sul (Marcelli 1992).

*Leptogium bullatum* (Sw.) Mont., Anns Sci. Nat., Bot., sér. 2 16: 133. 1841.

LOCALITIES: Águas Mornas, Blumenau (Müller 1891b).

*Leptogium cochleatum* (Dicks.) P.M. Jørg. & P. James, Lichenologist 15(2): 113. 1983.

LOCALITIES: Tubarão (Müller 1891a, as *L. tremelloides* Fr. Scan.); Joinville (Müller 1891b, as *L. tremelloides*).

*Leptogium foveolatum* Nyl., Syn. Lich. 1(1): 124. 1858.

LOCALITY: Campos das Antas [?] (Müller 1891b).

*Leptogium inflexum* Nyl., Flora, Jena 41: 377. 1858.

LOCALITY: Serra Geral [?] (Müller 1891a).

*Leptogium isidiosellum* (Riddle) Sierk, Bryologist 67: 282. 1964.

LOCALITIES: Laguna, Florianópolis, São Francisco do Sul (Marcelli 1992) and Laguna (Osorio 1997).

*Leptogium javanicum* (Mont. & Bosch) Mont., Gatlung Asterina: 379. 1856.

LOCALITY: Blumenau (Müller 1891a).

*Leptogium marginellum* (Sw.) Gray, Nat. Arr. Brit. Pl. (London) 1: 401. 1821.

LOCALITIES: Blumenau (Müller 1891a, as *L. marginellum* Montg.); Laguna (Marcelli 1992).

*Leptogium moluccanum* (Pers.) Vain., Acta Soc. Fauna Flora fenn. 7(1): 223. 1890.

LOCALITY: Florianópolis (Marcelli 1992).

*Leptogium phyllocarpum* (Pers.) Mont., Anns Sci. Nat., Bot., sér. 3 10: 134. 1848.

LOCALITIES: Águas Mornas (Müller 1891b); Blumenau (Müller 1891a); Florianópolis (Marcelli 1992).

***Leptotrema* Mont. & Bosch (*Thelotremataceae* Stizenb.)**

*Leptotrema lepadodes* (Tuck.) Zahlbr., Anns mycol. 10(4): 372. 1912.

LOCALITY: São Francisco do Sul (Marcelli 1992, as *Thelotrema lepadodes* Tuck.).

***Letrouitia* Hafellner & Bellem. (*Letrouitiaceae* Hafellner & Bellem.)**

*Letrouitia domingensis* (Pers.) Hafellner & Bellem., Nova Hedwigia 35(2 & 3): 281. 1982. [1981].

LOCALITY: São Canisio do Porto Novo [?] (Hafellner 1981).

***Logilvia* Vězda (*Ectolechiaceae* Zahlbr.)**

*Logilvia gilva* (Müll. Arg.) Vězda, Folia geobot. phytotax. 21(2): 216. 1986.

LOCALITY: Blumenau (Santesson 1952, as *Lopadium gilvum* Müll. Arg. fide Lücking 2008).

***Lopezaria* Kalb & Hafellner (*Ramalinaceae* C. Agardh)**

*Lopezaria versicolor* (Fée) Kalb & Hafellner, in Kalb, Lichenes Neotropici, Fascicle XI (nos 451-475) (Neumarkt): 2, no. 464. 1990.

LOCALITY: Águas Mornas (Müller 1891b, as *Patellaria versicolor* (Fée) Müll. Arg.).

***Malcolmiella* Vězda (*Ramalinaceae* C. Agardh)**

*Malcolmiella piperis* (Spreng.) Kalb & Lücking, in Lücking & Kalb, Bot. Jb. 122(1): 43. 2000.

LOCALITY: Águas Mornas (Müller 1891b, as *Lecidea piperis* Spreng.).

***Maronina* Hafellner & R.W. Rogers (*Lecanoraceae* Körb.)**

*Maronina multifera* (Nyl.) Hafellner & R.W. Rogers, in Jahns, Bibliothca Lichenol. 38: 106. 1990.

LOCALITY: Tubarão (Bevilaqua et al. 2009).

***Mazosia* A. Massal. (*Roccellaceae* Chevall.)**

*Mazosia paupercula* (Müll. Arg.) R. Sant., Symb. bot. upsal. 12(1): 128. 1952. Type (G)

LOCALITY: Florianópolis (Müller 1891a, as *Opegrapha paupercula* Müll. Arg.); Blumenau (Santesson 1952; Lücking 2008).

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

LOCALITIES: Blumenau (Santesson 1952); Florianópolis, São Francisco do Sul (Marcelli 1992).

***Megaloblastenia* Sipman (*Megalosporaceae* Vězda ex Hafellner & Bellem.)**

*Megaloblastenia marginiflexa* var. *dimota* (Malme) Sipman, Bibliothca Lichenol. 18: 93. 1983. Type (G)

LOCALITY: Serra Geral [?] (Sipman 1986).

***Megalospora* Meyen (*Megalosporaceae* Vězda ex Hafellner & Bellem.)**

*Megalospora sulphurata* Meyen, in Meyen & Flotow, Nova Acta Acad. Caes. Leop.-Carol. Nat. Cur. 19(suppl.): 228. 1843.

LOCALITIES: Serra Geral [?] (Müller 1891a, as *Patellaria sulphurata* (Mey.) Müll. Arg.); Florianópolis (Müller 1891a, as *P. sulphurata*; Marcelli 1992); Águas Mornas (Müller 1891b, as *P. sulphurata*).

*Megalospora tuberculosa* (Fée) Sipman, Bibliothca Lichenol. 18: 156. 1983.

LOCALITIES: Águas Mornas (Müller 1891b, as *Patellaria tuberculosa* (Fée) Müll. Arg.); Serra Geral [?], Florianópolis (Müller 1891a, as *P. tuberculosa*).

***Normandina* Nyl. (*Verrucariaceae* Zenker)**

*Normandina pulchella* (Borrer) Nyl., Anns Sci. Nat., Bot., sér. 4, 15: 382. 1861.

LOCALITIES: Florianópolis, São Francisco do Sul (Marcelli 1992).

***Ocellularia* G. Mey. (*Thelotremataceae* Stizenb.)**

*Ocellularia lathraea* (Tuck.) Zahlbr., Cat. Lich. Univers. 2: 593. 1923. [1924].

LOCALITY: São Francisco do Sul (Marcelli 1992, as *Thelotrema lathreum* Tuck.).

***Opegrapha* Ach. (*Roccellaceae* Chevall.)**

*Opegrapha bonplandii* Fée, Essai Crypt. Exot. (Paris) 1: 25. 1825. [1824].

LOCALITY: Blumenau (Müller 1891a).

*Opegrapha filicina* Mont., in Sagra, Histoire physique, politique et naturelle de l'île de Cuba, Botanique, Plantes cellulaires: 184. 1842. [“1838–42”].

LOCALITY: Águas Mornas (Lücking 2008).

*Opegrapha microsperma* Müll. Arg., Hedwigia 30: 241. 1891. Type (G?)

LOCALITY: Blumenau (Müller 1891a).

*Opegrapha varia* Pers., Ann. Bot. (Usteri) 1: 30. 1794.

LOCALITY: Blumenau (Müller 1891a, as *O. varia* var. *diaphora* Nyl.).



***Pannaria* Delise ex Bory (*Pannariaceae* Tuck.)**

*Pannaria mosenii* C. W. Dodge, Ann. Missouri Bot. Gard. 20, 443. 1933.

LOCALITY: Laguna (Marcelli 1992).

*Pannaria rubiginosa* (Thunb.) Delise, in Bory, Dict. Class. Hist. Nat. 13: 20. 1828.

LOCALITY: Águas Mornas (Müller 1891b).

*Pannaria stylophora* Vain., Suomal. Tiedeakat. Toim., Ser. A, 6(7): 102. 1915.

LOCALITY: Laguna (Marcelli 1992).

***Parmeliella* Müll. Arg. (*Pannariaceae* Tuck.)**

*Parmeliella nigrocincta* (Mont.) Müll. Arg., Flora, Jena 64: 86. 1881.

LOCALITY: Blumenau (Müller 1891a).

***Parmelinella* Elix & Hale (*Parmeliaceae* Zenker)**

*Parmelinella versiformis* (Kremp.) Marcelli, Acta botanica brasílica 7: 56. 1993.

Without specific locality (Hale 1976b recorded as *Parmelina versiformis* (Kremp.) Hale).

***Parmelinopsis* Elix & Hale (*Parmeliaceae* Zenker)**

*Parmelinopsis spumosa* (Asahina) Elix & Hale, Mycotaxon 29: 243. 1987.

LOCALITY: Florianópolis (Marcelli 1992).

***Parmotrema* A. Massal. (*Parmeliaceae* Zenker)**

*Parmotrema abnuens* (Nyl.) Hale, Phytologia 28(4): 334. 1974.

LOCALITY: Angelina (Fleig 1997).

*Parmotrema* cf. *argentinum* (Kremp.) Hale, Phytologia 28(4): 334. 1974.

LOCALITY: Florianópolis (Marcelli 1992).

*Parmotrema catarinae* Hale, Mycotaxon 25(1): 87. 1986. Type (US)

LOCALITY: Santa Cecília (Hale 1986).

*Parmotrema cetratum* (Ach.) Hale, Phytologia 28: 335. 1974.

LOCALITIES: Serra Geral [?], Tubarão (Müller 1891a, as *Parmelia cetrata* Ach.); Florianópolis (Müller 1891a, as *P. cetrata*; Marcelli 1992); Blumenau (Müller 1891b, as *P. cetrata*); Angelina, Concórdia (Fleig 1997, as *Rimelia cetrata* (Ach.) Hale & Fletcher).

*Parmotrema chinense* (Osbeck) Hale & Ahti, Taxon 35(1): 133. 1986.

LOCALITY: Angelina (Fleig 1997).

*Parmotrema conferendum* Hale, Mycotaxon 5(2): 433. 1977.

Without specific locality (Kurokawa 1991, as *Rimeliella conferenda* (Hale) Kurok.).

*Parmotrema consors* (Nyl.) Krog & Swinscow, Lichenologist 15(2): 129. 1983.

Without specific locality (Hale 1976b).

*Parmotrema crinitum* (Ach.) M. Choisy, Bull. mens. Soc. linn. Lyon 21: 175. 1952.

LOCALITIES: Laguna, Florianópolis (Marcelli 1992); Bom Jardim da Serra (Fleig 1997).

*Parmotrema dilatatum* (Vain.) Hale, Phytologia 28: 335. 1974.

LOCALITY: Florianópolis (Marcelli 1992).

*Parmotrema eciliatum* (Nyl.) Hale, Phytologia 28: 336. 1974.

LOCALITY: Serra Geral [?] (Müller 1891a, as *Parmelia eciliata* Nyl.).

*Parmotrema flavomedullosum* Hale, Mycotaxon 1(2): 110. 1974. Type (US)

LOCALITY: Campos Novos (Hale 1974).

*Parmotrema fumarprotocetraricum* Marcelli & Hale, Mycotaxon 25(1): 88. 1986.

LOCALITIES: Without specific locality (Hale 1986); Florianópolis (Marcelli 1992).

*Parmotrema hypomiltoides* (Vain.) Kurok., in Kurokawa & Moon, Bulletin of the Botanic Gardens of Toyama 3: 18. 1998.

LOCALITY: Bom Jardim da Serra (Fleig 1997).

*Parmotrema internexum* (Nyl.) Hale ex DePriest & B.W. Hale, Mycotaxon 67: 204. 1998.

LOCALITY: Blumenau (Müller 1891a, as *Parmelia catharinensis* Müll. Arg.).

*Parmotrema latissimum* (Fée) Hale, Phytologia 28: 337. 1974.

LOCALITY: Blumenau (Müller 1891b, as *Parmelia latissima* Fée f. *isidiosa* Müll. Arg.).

*Parmotrema madilynae* A. Fletcher, in Hale, Mycotaxon 25(1): 88. 1986.

LOCALITY: Florianópolis (Marcelli 1992).

*Parmotrema melanothrix* (Mont.) Hale, Phytologia 28(4): 337. 1974.

LOCALITIES: Serra Geral [?] (Müller 1891a, as *Parmelia melanothrix* Vain.); Águas Mornas (Müller 1891b, as *P. melanothrix*); São João do Sul (Fleig 1997).

*Parmotrema mellissii* (C.W. Dodge) Hale, Phytologia 28: 337. 1974.

LOCALITIES: Angelina, Blumenau, Bom Jardim da Serra, São José do Cerrito (Fleig 1997).

*Parmotrema perforatum* (Wulfen) A. Massal., Atti Inst. Veneto Sci. lett., ed Arti, Sér. 3, 5: 248. 1860.

LOCALITIES: Laguna (Müller 1891a, as *Parmelia perforata* (Wulfen) Ach.); Florianópolis (Müller 1891b, as *P. perforata*).

*Parmotrema praesorediosum* (Nyl.) Hale, Phytologia 28: 338. 1974.

LOCALITIES: Jaraguá do Sul, São José, São Joaquim (Fleig 1997).

*Parmotrema reitzii* Hale, Mycotaxon 5(2): 439. 1977. Type (US)

LOCALITY: Lages (Hale 1977)

*Parmotrema reticulatum* (Taylor) M. Choisy, Bull. mens. Soc. linn. Lyon 21: 148. 1952.

LOCALITIES: Florianópolis, Laguna (Marcelli 1992).

*Parmotrema robustum* (Degel.) Hale, Phytologia 28: 338. 1974.

LOCALITIES: Bom Jardim da Serra, São Joaquim (Fleig 1997).

*Parmotrema sancti-angelii* (Lyngé) Hale, Phytologia 28: 339. 1974.

LOCALITIES: Angelina, Blumenau, Jaraguá do Sul (Fleig 1997).

*Parmotrema spinibarbe* (Kurok.) Hale ex DePriest & B.W. Hale, Mycotaxon 67: 204. 1998.

LOCALITY: São José do Cerrito (Fleig 1997).

*Parmotrema subcaperatum* (Kremp.) Hale, Phytologia 28: 339. 1974.

LOCALITY: Florianópolis (Müller 1891a, as *Parmelia subcaperata* Kremp.).

*Parmotrema subrugatum* (Kremp.) Hale, Phytologia 28: 339. 1974.

LOCALITY: Águas Mornas (Müller 1891b, as *Parmelia subrugata* Kremp.).

*Parmotrema subsumptum* (Nyl.) Hale, Mycotaxon 5(2): 434. 1977.

LOCALITY: Florianópolis (Müller 1891b, as *Parmelia urceolata* Eschw. var. *nuda* Müll. Arg.); Caçador (Hale 1965, as *P. subsumpta* Nyl.).

*Parmotrema tinctorium* (Despr. ex Nyl.) Hale, Phytologia 28: 339. 1974.

LOCALITIES: Blumenau, Florianópolis (Müller 1891b, as *Parmelia tinctorum* Nyl.); Concórdia, São José (Fleig 1997).

*Parmotrema ultralucens* (Krog) Hale, Phytologia 28: 339. 1974.

LOCALITY: Laguna (Marcelli 1992).

*Parmotrema wainioi* (A.L. Sm.) Hale, Phytologia 28(4): 339. 1974.

LOCALITIES: Bom Jardim da Serra, Lauro Müller, São Joaquim (Fleig 1997).

*Parmotrema xanthinum* (Müll. Arg.) Hale, Phytologia 28(4): 339. 1974.

LOCALITY: Florianópolis (Müller 1891b, as *Parmelia xanthina* (Vain.) Müll. Arg.).

### ***Patellaria* Fr. (*Patellariaceae* Corda)**

*Patellaria cladoniarum* Müll. Arg., Hedwigia, 30: 232. 1891. Type (G?)

LOCALITY: Águas Mornas (Müller 1891b).

*Patellaria millegrana* (Taylor) Müll. Arg., Flora, Jena 63(18): 280. 1880.

LOCALITY: Blumenau (Müller 1891a, as *P. millegrana* var. *suffusa* (Fr.) Müll. Arg.).

*Patellaria nigrata* Müll. Arg., Flora, 71: 540. 1888.

LOCALITY: Blumenau (Müller 1891a).

*Patellaria vigilans* (Taylor) Müll. Arg., Flora 64: 227. 1881.

LOCALITY: Florianópolis (Müller 1891a).

***Peltigera* Willd. (*Peltigeraceae* Dumort.)**

*Peltigera austroamericana* Zahlbr., Cat. Lich. Univers. 3: 456. 1925.

LOCALITIES: Serra Geral [?], Serra do Oratório [?] (Müller 1891a, as *P. americana* Vain.); Águas Mornas, Campos das Antas [?] (Müller 1891b, as *P. americana*).

*Peltigera leptoderma* Nyl., Syn. Lich. 1: 325. 1860.

LOCALITY: Tubarão (Müller 1891a).

*Peltigera polydactylon* (Neck.) Hoffm., Descr. Adumb. Plant. Lich. 1(1): 19. 1789.

LOCALITY: Serra Geral [?] (Müller 1891a, as *P. polydactylon* f. *dolichorrhiza* Nyl.).

***Pertusaria* DC. (*Pertusariaceae* Körb.)**

*Pertusaria anisospora* Müll. Arg., Flora, Jena 67: 301. 1884.

LOCALITY: Blumenau (Müller 1891a).

*Pertusaria commutata* Müll. Arg., Flora, Jena 67: 269. 1884.

LOCALITY: Águas Mornas (Müller 1891b).

*Pertusaria flavens* Nyl., Bull. Soc. linn. Normandie, sér. 2, 3: 268. 1869.

LOCALITY: Laguna, Florianópolis (Marcelli 1992).

*Pertusaria polita* Müll. Arg., Flora, Jena 67: 464. 1884.

LOCALITY: Águas Mornas (Müller 1891b).

*Pertusaria tetrathalamia* (Fée) Nyl., Acta Soc. Sci. fenn. 7: 448. 1863.

LOCALITIES: Águas Mornas (Müller 1891b); Florianópolis (Marcelli 1992).

***Phaeographina* Müll. Arg. (*Graphidaceae* Dumort.)**

*Phaeographina caesiopruinosa* (Fée) Müll. Arg., Mém. Soc. Phys. Hist. nat. Genève 29(8): 49. 1887.

LOCALITY: Blumenau (Müller 1891b).

***Phaeographis* Müll. Arg. (*Graphidaceae* Dumort.)**

*Phaeographis haematites* (Fée) Müll. Arg., Flora 65: 384. 1882.

LOCALITY: Florianópolis (Staiger 2002).

*Phaeographis lecanographa* (Nyl.) Staiger, Bibliothca Lichenol. 85: 334. 2002.

LOCALITY: Florianópolis (Staiger 2002).

*Phaeographis lobata* (Eschw.) Müll. Arg., Flora, Jena 65(24): 383. 1882.

LOCALITIES: Florianópolis (Staiger 2002); Tubarão (Bevilaqua et al. 2009).

*Phaeographis scalpturata* (Ach.) Staiger, Bibliothca Lichenol. 85: 345. 2002.

LOCALITY: Florianópolis (Staiger 2002).

***Phyllobaeis* Kalb & Gierl (*Baeomycetaceae* Dumort.)**

*Phyllobaeis erythrella* (Mont.) Kalb, Herzogia 9(3-4): 610. 1993.

LOCALITIES: without specific locality (Müller 1891a, as *Baeomyces erythrellus* (Montg.) Nyl.); Águas Mornas (Müller 1891b, as *B. erythrellus*).

***Phyllobathelium* (Müll. Arg.) Müll. Arg. (*Phyllobatheliaceae* Bitter & F. Schill.)**

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

LOCALITIES: Blumenau, São Francisco do Sul (Santesson 1952, as *P. epiphyllum* (Müll. Arg.) Müll. Arg. fide Lücking 2008).

***Phyllopsora* Müll. Arg. (*Ramalinaceae* C. Agardh)**

*Phyllopsora buettneri* var. *munda* (Malme) Brako, Mycotaxon 35(1): 12. 1989.

LOCALITIES: Between Urubici, Capivara Alta [?] (Brako 1991).

*Phyllopsora canoumbrina* (Vain.) Brako, Mycotaxon 35(1): 12. 1989.

LOCALITY: Blumenau (Brako 1991).

*Phyllopsora confusa* Swinscow & Krog, Lichenologist 13(3): 229. 1981.

LOCALITIES: Timbé do Sul, Between Urubici and Capivara Alta [?],  
Pinheiral, Ruderal Riozinho [?] (Brako 1991).

*Phyllopsora corallina* (Eschw.) Müll. Arg., Bot. Jb. 20: 264. 1894. [1895].

LOCALITIES: Timbé do Sul (Brako 1991 as *P. corallina* var. *corallina*),  
Between Urubici and Capivara Alta [?] (Brako 1991 as *P. corallina* var.  
*ochroxantha* (Nyl.) Brako).

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

LOCALITIES: Between Urubici and Capivara Alta [?], Bom Jardim da  
Serra (Brako 1991).

*Phyllopsora parvifolia* (Pers.) Müll. Arg. var. *parvifolia*, Bull. Herb. Boissier 2(1): 90.  
1894.

LOCALITIES: Between Urubici and Capivara Alta [?] and Timbé do Sul  
(Brako 1991).

***Physcia* (Schreb.) Michx. (*Physciaceae* Zahlbr.)**

*Physcia alba* (Fée) Müll. Arg., Revue mycol., Toulouse 9: 136. 1887.

LOCALITIES: Laguna, Florianópolis (Marcelli 1992).

*Physcia solediosa* (Vain.) Lynge, Videnskapselsk. Skrift I, Mat.-Naturv. Kl. 2, 16: 27.  
1924.

LOCALITY: São Francisco do Sul (Marcelli 1992).

***Physma* A. Massal. (*Collema* *Collemataceae* Zenker)**

*Physma byrsinum* (Ach.) Müll. Arg., Flora, Jena 68: 531. 1885.

LOCALITIES: Águas Mornas (Müller 1891b); Florianópolis (Marcelli 1992).

***Platygramme* Fée (*Graphidaceae* Dumort.)**

*Platygramme caesiopruinosa* (Fée) Fée, Bull. Soc. bot. Fr. 21: 30. 1874.

LOCALITIES: Florianópolis (Staiger 2002); Tubarão (Bevilaqua et al. 2009).

***Polychidium* (Ach.) Gray (*Massalongiaceae* Wedin, P.M. Jørg. & Wiklund)**

*Polychidium dendriscum* (Nyl.) Henssen, Symb. bot. upsal. 18(1): 107. 1963.

LOCALITY: Florianópolis (Marcelli 1992).

***Porina* Ach. (*Porinaceae* Rchb.)**

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

LOCALITY: Águas Mornas (Lücking 2008).

*Porina atrocoerulea* Müll. Arg., Flora, Jena 66: 336. 1883.

LOCALITY: Águas Mornas (Lücking 2008).

*Porina distans* Vězda & Vivant, in Vězda, Nova Hedwigia 58(1-2): 136. 1994.

LOCALITY: Águas Mornas (Lücking 2008).

*Porina epiphylla* Fée, Essai Crypt. Exot. (Paris) 1: 76. 1825. [1824].

LOCALITIES: Águas Mornas (Lücking 2008); Itajaí (Santesson 1952); São Francisco do Sul (Santesson 1952; Lücking 2008); Tubarão (Müller 1891a, as *Phylloporina epiphylla* Müll. Arg.; Santesson 1952).

*Porina fulvella* Müll. Arg., Flora, Jena 66: 335. 1883.

LOCALITY: Águas Mornas (Lücking 2008).

*Porina leptospermoides* Müll. Arg., Flora, Jena 66: 333. 1883.

LOCALITY: Águas Mornas (Lücking 2008).



*Porina limbulata* (Kremp.) Vain., Ann. Acad. Sci. fenn., Ser. A 15(6): 363. 1921.

LOCALITY: Florianópolis, Pedras Grandes, São Francisco do Sul (Santesson 1952).

*Porina mastoidea* (Ach.) Müll. Arg., Bot. Jb. 6: 399. 1885.

LOCALITY: São Francisco do Sul (Marcelli 1992).

*Porina octomera* (Müll. Arg.) F. Schill., Hedwigia 67: 274. 1927.

LOCALITY: Águas Mornas (Lücking 2008).

*Porina rubentior* (Stirt.) Müll. Arg., Flora, Jena 66: 26 (660). 1883.

LOCALITIES: Águas Mornas, Florianópolis (Lücking 2008).

*Porina rudiuscula* (Nyl.) Müll. Arg., Hedwigia 31: 287. 1892.

LOCALITIES: Florianópolis, São Francisco do Sul (Marcelli 1992).

*Porina rufula* (Kremp.) Vain., Acta Soc. Fauna Flora fenn. 7(2): 227. 1890.

LOCALITY: Blumenau (Santesson 1952, Lücking 2008).

*Porina tetramera* (Malme) R. Sant., J. Ecol. 40: 129. 1952.

LOCALITY: Águas Mornas (Lücking 2008).

### ***Pseudocyphellaria* Vain. (*Lobariaceae* Chevall.)**

*Pseudocyphellaria aurata* (Ach.) Vain., Acta Soc. Fauna Flora fenn. 7(1): 183. 1890.

LOCALITIES: Blumenau, Serra Geral [?], Tubarão (Müller 1891a), Águas Mornas, Joinville (Müller 1891b), Laguna and Florianópolis (Marcelli 1992).

*Pseudocyphellaria tomentosa* (Sw.) Vain., Philippine J. Sci. C bot., 8: 121. 1913.

LOCALITY: Serra Geral [?] (Müller 1891a, as *Stictina tomentosa* var. *ambavillaria* Nyl.); without specific locality (Müller 1891a, as *S. tomentosa*).

### ***Pseudoparmelia* Lynge (*Parmeliaceae* Zenker)**

*Pseudoparmelia cubensis* (Nyl.) Elix & T.H. Nash, Bryologist 100(4): 490. 1998. [1997].

LOCALITY: Florianópolis (Elix & Nash 1997).

***Pseudopyrenula* Müll. Arg. (*Trypetheliaceae* Zenker)**

*Pseudopyrenula atroalba* Vain., Acta Soc. Fauna Flora fenn. 7(2): 211. 1890

LOCALITY: Florianópolis (Müller 1891a).

***Psora* Hoffm. (*Psoraceae* Zahlbr.)**

*Psora intermediella* (Nyl.) Müll. Arg., Flora 71: 528. 1888.

LOCALITY: Blumenau (Müller 1891a).

***Psorotheciopsis* Rehm (*Asterothyriaceae* Walt. Watson ex R. Sant.)**

*Psorotheciopsis albomaculans* (Rehm) R. Sant., Symb. bot. upsal. 12(1): 335. 1952.

LOCALITY: Blumenau (Santesson 1952; Lücking 2008).

*Psorotheciopsis philippinensis* (Rehm) Lücking, Cryptog. Mycol. 20(3): 213. 1999.

LOCALITY: Blumenau (Santesson 1952, as *P. patellarioides* (Rehm) R. Sant. fide Lücking 2008).

***Punctelia* Krog (*Parmeliaceae* Zenker)**

*Punctelia constantimontium* Sérus., Nordic J Bot. 3(4): 517. 1983.

LOCALITY: Blumenau (Sérusiaux 1983).

***Pyrenula* Ach. (*Pyrenulaceae* Rabenh.)**

*Pyrenula cerina* Eschw., Syst. Lich.: 25. 1824.

LOCALITY: São Francisco do Sul (Marcelli 1992).

*Pyrenula kunthii* (Fée) Fée, Essai Crypt. Exot., Suppl. (Paris): 80. 1837.

LOCALITIES: Florianópolis, São Francisco do Sul (Marcelli 1992).

*Pyrenula mastophora* (Nyl.) Müll. Arg., Flora, Jena 66: 426. 1883.

LOCALITY: Florianópolis (Marcelli 1992).

*Pyrenula subferruginea* (Malme) R.C. Harris, Mem. N. Y. bot. Gdn 49: 101. 1989.

LOCALITY: São Francisco do Sul (Marcelli 1992, as *Parathelium subferrugineum* Malme).

***Pyxine* Fr. (*Physciaceae* Zahlbr.)**

*Pyxine albovirens* (G. Mey.) Aptroot, in Aptroot, Flora of the Guianas, Series E: Fungi and Lichens. Fascicle I. Pyxinaceae (Koenigstein): 42. 1987.

LOCALITY: Florianópolis (Kalb 2004).

*Pyxine caesiopruinosa* (Tuck.) Imshaug, Trans. Am. microsc. Soc. 76: 262. 1957.

LOCALITY: Florianópolis (Kalb 1987).

*Pyxine cocoës* (Sw.) Nyl., Mém. Soc. Imp. Sci. Nat. Cherbourg 5: 108. 1857.

LOCALITY: Florianópolis (Kalb 1987).

*Pyxine microspora* Vain., Philipp. J. Sci., C, Bot. 8: 110. 1913.

LOCALITY: Florianópolis (Kalb 1987).

*Pyxine rhizophorae* Kalb, Bibliotheca Lichenol. 24: 68. 1987.

LOCALITY: Laguna, Florianópolis (Marcelli 1992).

***Ramalina* Ach. (*Ramalinaceae* C. Agardh)**

*Ramalina celastri* (Spreng.) Krog & Swinscow subsp. *celastri*, Norw. J. Bot. 23: 159. 1976.

LOCALITIES: Itajaí, Serra Geral [?] (Müller 1891a,b, as *Ramalina eckloni* Montg.); Águas Mornas (Müller 1891b, as *R. eckloni* var. *membranacea* (Laur.) Müll. Arg.).

*Ramalina complanata* (Sw.) Ach., Lich. univ.: 599. 1810.

LOCALITIES: Florianópolis (Müller 1891b); Laguna (Osorio 1997); without specific locality (Kashiwadani & Kalb 1993).

*Ramalina dendriscoides* Nyl., Flora, Jena 59: 412. 1876.

LOCALITY: Florianópolis (Müller 1891b).

*Ramalina gracilis* (Pers.) Nyl., Syn. Lich. 1(2): 296. pl. 8, fig. 30. 1860.

LOCALITIES: São Francisco do Sul (Müller 1891a); Itajaí (Müller 1891b); Laguna (Kashiwadani & Kalb 1993; Osorio 1997); Florianópolis (Kashiwadani & Kalb 1993).

*Ramalina peruviana* Ach., Lich. univ.: 599. 1810.

LOCALITY: Florianópolis (Marcelli 1992).

*Ramalina prolifera* Taylor, in Hook. London Journ. of Botan. 6: 189. 1847.

LOCALITIES: Blumenau, Serra Geral [?] (Kashiwadani & Kalb 1993).

*Ramalina solediosa* (B. de Lesd.) Landrón, Lichenologist 25(1): 25. 1993.

LOCALITY: Florianópolis (Kashiwadani & Kalb 1993).

*Ramalina usnea* (L.) R. Howe, Bryologist 17: 81, fig. 1, pl. 12, figs 1-2. 1914.

LOCALITY: São Bento do Sul (Müller 1891b, as *Ramalina usneoides* Fr. var. *tenuis* Nyl.); Laguna (Osorio 1997).

***Relicina* (Hale & Kurok.) Hale (*Parmeliaceae* Zenker)**

*Relicina relicinula* (Müll. Arg.) Hale, Smithson. Contr. bot. 26: 27. 1975.

LOCALITY: Florianópolis (Müller 1891a, as *Parmelia relicina* Fr.). Probably a misidentification for South America (Hale 1975).

***Rinodina* (Ach.) Gray (*Physciaceae* Zahlbr.)**

*Rinodina colorans* Vain., Acta Soc. Fauna Flora fenn, 7(1): 159. 1890.

LOCALITY: Itajaí (Müller 1891a); Florianópolis (Marcelli 1992).

***Sarcographa* Fée (*Graphidaceae* Dumort.)**

*Sarcographa labyrinthica* (Ach.) Müll. Arg., Mém. Soc. Phys. Hist. nat. Genève 29(8): 62. 1887.

LOCALITY: Tubarão (Bevilaqua et al. 2009).

***Sporopodium* Mont. (*Ectolechiaceae* Zahlbr.)**

*Sporopodium phyllocharis* (Mont.) A. Massal., Alcuni Gen. Lich.: 9. 1855.

LOCALITY: Águas Mornas (Lücking 2008).

***Stereocaulon* Hoffm. (*Stereocaulaceae* Chevall.)**

*Stereocaulon ramulosum* Räscher, Nomenclat. bot., Edn 3: 328. 1797.

LOCALITIES: Serra Geral [?] (Müller 1891a, as *S. proximum* Nyl.); Águas Mornas, Joinville (Müller 1891b, as *S. proximum*).

***Sticta* (Schreb.) Ach. (*Lobariaceae* Chevall.)**

*Sticta aurora* De Not., Mem. Reale Accad. Sci. Torino ser. 2, 12: 149. 1851.

LOCALITY: Águas Mornas (Müller 1891b); Serra Geral [?] (Müller 1891a).

*Sticta damicornis* (Sw.) Ach., Method. Lich.: 276. 1803.

LOCALITIES: Blumenau, São Francisco do Sul, Serra Geral [?] (Müller 1891a, as *S. damaeornis* Ach.); Águas Mornas, Campos das Antas [?], São Bento do Sul, Florianópolis (Müller 1891b, as *S. damaeornis*).

*Sticta erosa* (Eschw.) Tuck., A synopsis of the North American lichens. Part. I: 93. 1882.

LOCALITY: Águas Mornas (Müller 1891b).

*Sticta glaberrima* Laurer, Linnaea 2: 42. 1827.

LOCALITY: Blumenau (Müller 1891a).

*Sticta howei* D.J. Galloway, Trop. Bryol. 15: 137. 1998.

LOCALITY: Serra Geral [?] (Müller 1891a, as *Sticta sinuosa* Pers. var. *macrophylla* Müll Arg.).

*Sticta laciniata* (Sw.) Ach., Method. Lich.: 279. 1803.

LOCALITIES: Águas Mornas (Müller 1891b, as *S. laciniata* var. *laeviuscula* Nyl.); Blumenau (Müller 1891a,b, as *S. laciniata* var. *laeviuscula*).

*Sticta patinifera* (Taylor) Müll. Arg., Flora 74: 111. 1891, as “*patiniformis*”.

LOCALITIES: Blumenau, Serra Geral [?] (Müller 1891a).

*Sticta sinuosa* Pers., in Gaudichaud-Beaupré in Freycinet, Voy. Uranie. Bot. 5: 200. 1827. [1826-1830].

LOCALITIES: Florianópolis (Müller 1891a), Águas Mornas (Müller 1891b).

*Sticta weigeli* (Ach.) Vain, Acta Soc. Fauna Flora fenn. 7(1): 189. 1890.

LOCALITIES: Blumenau, Florianópolis (Müller 1891a,b, as *Stictina quercizans* Nyl.); Serra Geral [?] (Müller 1891a, as *S. quercizans*); Águas Mornas, Joinville, Campos das Antas [?] (Müller 1891b, as *S. quercizans*); Laguna, Florianópolis, São Francisco do Sul (Marcelli 1992).

### ***Stigmatochroma* Marbach (*Caliciaceae* Chevall.)**

*Stigmatochroma gerontoides* (Stirt.) Marbach, Bibliothca Lichenol. 74: 314. 2000.

LOCALITIES: Florianópolis (Marbach 2000); Tubarão (Bevilaqua et al. 2009).

### ***Strigula* Fr. (*Strigulaceae* Zahlbr.)**

*Strigula concreta* (Fée) R. Sant., Symb. bot. upsal. 12(no. 1): 177. 1952.

LOCALITY: Águas Mornas (Lücking 2008).

*Strigula janeirensis* (Müll. Arg.) Lücking, Trop. Bryol. 15: 65. 1998.

LOCALITY: Blumenau (Santesson 1952, as *Raciborskiella janeirensis* (Müll. Arg.) R. Sant. fide Lücking 2008).

*Strigula nemathora* Mont. var. *nemathora*, in Sagra, Histoire physique, politique et naturelle de l'île de Cuba, Botanique, Plantes cellulaires: 143. 1842. ["1838–42"].

LOCALITY: Águas Mornas (Lücking 2008).

*Strigula phyllogena* (Müll. Arg.) R.C. Harris, More Florida Lichens, Incl. 10 Cent Tour Pyrenol. (New York): 159. 1995.

LOCALITY: Águas Mornas (Lücking 2008).

*Strigula smaragdula* Fr., Linnaea 5: 550. 1830.

LOCALITIES: Blumenau (Müller 1891a, b, Santesson 1952, as *S. elegans* (Fée) Müll. Arg.); Laguna, São Francisco do Sul (Santesson 1952, as *S. elegans*); Tubarão (Müller 1891a,b, as *S. elegans*).

*Strigula subtilissima* (Fée) Müll. Arg., Flora, Jena 66: 32 (678). 1883.

LOCALITY: Blumenau (Lücking 2008).

***Tapellaria* Müll. Arg. (*Ectolechiaceae* Zahlbr.)**

*Tapellaria corticola* Kalb & Vězda, Folia geobot. phytotax. 22(3): 305. 1987.

LOCALITY: São Francisco do Sul (Marcelli 1992).

*Tapellaria epiphylla* (Müll. Arg.) R. Sant., in Thorold, J. Ecol. 40: 129. 1952.

LOCALITY: Pedras Grandes (Müller 1895, as *Lopadium epiphyllum* Müll. Arg fide Santesson 1952).

*Tapellaria moelleri* (Henriq.) R. Sant., J. Ecol. 40: 129. 1952.

LOCALITY: São Francisco do Sul (Santesson 1952; Lücking 2008).

*Tapellaria nana* (Fée) R. Sant., Symb. bot. upsal. 12(no. 1): 507. 1952.

LOCALITIES: Blumenau, Tubarão, Serra Geral [?] (Santesson 1952; Lücking 2008).

*Tapellaria phyllophila* (Stirt.) R. Sant., in Thorold, J. Ecol. 40: 129. 1952.

LOCALITY: Águas Mornas (Lücking 2008).

***Thelotrema* Ach. (*Thelotremataceae* Stizenb.)**

*Thelotrema lepadinum* (Ach.) Ach., Method. Lich.: 132. 1803.

LOCALITY: Serra Geral [?] (Redinger 1936).

***Teloschistes* Norman (*Teloschistaceae* Zahlbr.)**

*Teloschistes chrysophthalmus* (L.) Beltr., Lich. Bassan.: 109. 1858.

LOCALITY: Florianópolis (Marcelli 1992).

*Teloschistes exilis* (Michx.) Vain., Acta Soc. Fauna Flora fenn. 7(1): 115. 1890.

LOCALITIES: Serra Geral [?], Tubarão (Müller 1891a, as *T. flavicans* var. *exilis* (Michx.) Müll. Arg.); Águas Mornas, Florianópolis (Müller 1891b, as *T. flavicans* var. *exilis*).

*Teloschistes flavicans* (Sw.) Norman, Nytt Mag. Natur. 7: 229. 1853. [1852].

LOCALITIES: Laguna (Müller 1891a; Marcelli 1992; Osorio 1997); Florianópolis (Müller 1891a; Marcelli 1992); Águas Mornas; Itajaí (Müller 1891b).

***Tephromela* M. Choisy (*Tephromelataceae* Hafellner)**

*Tephromela atra* (Huds.) Hafellner, in Kalb, Lichenes Neotropici, Fascicle VII (nos 251-300) (Neumarkt) 7: 297. 1983.

LOCALITY: Florianópolis (Marcelli 1992, as *Lecanora atra* (Huds.) Ach.).

***Tricharia* Fée (*Gomphillaceae* Walt. Watson ex Hafellner)**

*Tricharia urceolata* (Müll. Arg.) R. Sant., Symb. bot. upsal. 12(1): 384. 1952.

LOCALITY: Tubarão (Müller 1891a, as *Lopadium carneum* Müll. Arg. fide Santesson 1952).

*Tricharia vainioi* R. Sant., Symb. bot. upsal. 12(1): 382. 1952.

LOCALITY: Barra Velha (Ferraro 2006).

***Trichothelium* Müll. Arg. (*Porinaceae* Rchb.)**

*Trichothelium annulatum* (P. Karst.) R. Sant., Symb. bot. upsal. 12(1): 275. 1952.

LOCALITY: Blumenau (Santesson 1952).

*Trichothelium bipindense* F. Schill., Hedwigia 67: 278. 1927.

LOCALITY: Águas Mornas (Lücking 2008).

*Trichothelium minus* Vain., J. Bot., Lond. 34: 296. 1896.

LOCALITY: Águas Mornas (Lücking 2008).

***Trypethelium* Spreng. (*Trypetheliaceae* Zenker)**

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

LOCALITY: Blumenau (Müller 1891b).

***Usnea* Dill. ex Adans. (*Parmeliaceae* Zenker)**

*Usnea antillarum* (Vain.) Zahlbr., Cat. Lich. Univers. 6: 536. 1930.



Without specific locality (Motyka 1936).

*Usnea arthroclada* Fée, Essai Cryptog. Eeorc. Officin., p. XCVII and CI. 1824.

LOCALITIES: Águas Mornas (Müller 1891b); Joinville (Müller 1891b, Howe 1915, as *U. arthroclada* var. *spinulosa* Müll. Arg.).

*Usnea articulata* (L.) Hoffm., Deutschl. Fl., Zweiter Theil (Erlangen): 133. 1796.

LOCALITY: Serra Geral [?] (Müller 1891a).

*Usnea baileyi* (Stirt.) Zahlbr., Denkschr. Kaiserl. Akad. Wiss., Math.-Naturwiss. Kl. 83: 183. 1909.

LOCALITY: Florianópolis (Marcelli 1992).

*Usnea barbata* (L.) Weber ex F.H. Wigg., Brit. Fl. 1: 206. 1780.

LOCALITIES: Blumenau (Müller 1891a,b); Águas Mornas, Campos das Antas [?], Florianópolis, Itajaí, Joinville (Müller 1891b); São Francisco do Sul, Serra Geral [?] (Müller 1891a).

*Usnea cinchonae* (Willd.) Zahlbr., Cat. Lich. Univers 6: 547. 1930.

Without specific locality (Motyka 1938).

*Usnea cladocarpa* Fée, Essai Crypt. Exot. (Paris) 1: XCVII. 1825. [1824].

Without specific locality (Motyka 1938).

*Usnea densirostra* Taylor, in Hooker, London J. Bot., 6: 192. 1847.

LOCALITIES: Serra Geral [?] (Müller 1891a, as *Usnea barbata* var. *densirostra* (Taylor) Müll. Arg.); Campos das Antas [?] (Müller 1891b, as *U. barbata* var. *densirostra*); Laguna (Osorio 1997); without specific locality (Motyka 1938).

*Usnea firma* Motyka, Lich. Gen. Usnea Monogr. 2: 404, 410. 1938.

Without specific locality (Motyka 1938).

*Usnea florida* (L.) Weber ex F.H. Wigg., Prim. fl. holsat. (Kiliae) 2: 7. 1780.

LOCALITIES: Blumenau (Müller 1891a, b recorded as *Usnea barbata* var. *florida* Fr.; Howe 1915 recorded as *U. barbata* var. *florida* st. *rubescens*

Müll. Arg.) and Serra Geral [?] (Müller 1891a recorded as *U. barbata* var. *florida*).

*Usnea gaudichaudii* Motyka, Lich. Gen. Usnea Monogr. 2(2): 600. 1938.

Without specific locality (Motyka 1938).

*Usnea glabrata* (Ach.) Vain., Ann. Acad. Sci. fenn., Ser. A 6(7): 7. 1915.

LOCALITY: Blumenau (Müller 1891b, as *Usnea barbata* var. *sorediifera* Arv.).

*Usnea implicata* (Stirt.) Zahlbr., Cat. Lich. Univers. 6: 582. 1930.

Without specific locality (Motyka 1936).

*Usnea laevis* (Eschw.) Nyl., Syn. Lich. 1(2): 271. 1860.

LOCALITY: Campos das Antas [?] (Müller 1891b).

*Usnea plicata* var. *scabra* Müll. Arg., Hedwigia 30: 225. 1891.

LOCALITY: Joinville (Müller 1891b; Howe 1915).

*Usnea radiata* Stirt., Scott. Natural. 6: 103. 1881.

Without specific locality (Motyka 1938).

*Usnea spinulosa* (Müll. Arg.) Motyka, Lich. Gen. Usnea Monogr. 2(2): 408. 1938.  
Type: (G)

Without specific locality (Motyka 1938).

*Usnea steineri* Zahlbr., Cat. Lich. Univers 6: 592. 1930.

Without specific locality (Motyka 1938).

*Usnea subcomosa* Vain., Kgl. Danske Vidensk. Selsk. Skr., nat. math. 8(6): 392. 1924.

Without specific locality (Motyka 1938).

*Usnea subelegans* (Vain.) Motyka, in Bouly des Lesdain, Ann. Crypt. Exot. 6: 122. 1933.

Without specific locality (Motyka 1938).

*Usnea venusta* Motyka, Lich. Gen. Usnea Monogr. 2(2): 434, 441. 1938. Type: (B)

Without specific locality (Motyka 1938).

***Xanthoparmelia* (Vain.) Hale (*Parmeliaceae* Zenker)**

*Xanthoparmelia catarinae* Hale, Mycotaxon 34(2): 543. 1989. Type (US)

LOCALITY: Florianópolis (Hale 1989).

*Xanthoparmelia conspersa* (Ehrh. ex Ach.) Hale, Phytologia 28: 485. 1974.

Without specific locality (Nash et al. 1995).

*Xanthoparmelia convoluta* (Kremp.) Hale, Phytologia 28: 487. 1974.

LOCALITIES: Águas Mornas (Müller 1891b, as *Parmelia kamtschadalis* f. *tenuis* Müll. Arg.); Serra Geral [?] (Müller 1891a, as *P. kamtschadalis* f. *tenuis*).

*Xanthoparmelia hypopsila* (Müll. Arg.) Hale, Phytologia 28: 488. 1974.

LOCALITY: Lages (Hale 1990).

*Xanthoparmelia neopropaguloides* Hale, Smithson. Contr. bot. 74: 157. 1990.

Without specific locality (Nash et al. 1995).

*Xanthoparmelia plittii* (Gyeln.) Hale, Phytologia 28: 488. 1974.

Without specific locality (Nash et al. 1995).

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