

Lichenes,

quos elaboravit

Dr. **J. Müller** (Müll. Arg.)

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1. *Leptogium Menziesii* Montg. Chili 223 (ster.); bei der Drehschiffel und bei der Sternwarte: Will Nr. 19.

2. *Cladonia rangiferina* Hoffm. Flor. Germ. p. 114 (ster.); sehr häufig auf trockenem steinigem Boden. — Will Nr. 14.

3. *Cladonia furcata* Hoffm. v. *subpungens* Müll. Arg. in Flora 1836 Lichenolog. Beitr. No. 989; 2-3-pollicaris; podetia modice fastigiatim ramosa, recta et erecta, sparsius aut densius foliolosa, summitates subuliformes et castaneo-fuscae. — Habitus ut in var. *subulata* Flk., sed foliolosa et saltem superne castanea et superficies grosse corticato-granulosa. — Inter *Cl. rangiferinam* et *Cl. bellidifloram* immixta: Hochplateau am Fuße des Brocken.

4. *Cladonia pyxidata* Fries Lichenogr. europ. p. 216 (*Cl. neglecta* Flk. Clad. p. 49); an der Landzunge zwischen *Dactylis*: Will Nr. 12 pr. min. parte immixta cum *Psoromate hypnorum* v. *deaurato*.

5. *Cladonia bellidiflora* f. *ventricosa* Flörke Clad. p. 97; parce fertilis: Hochplateau am Fuße des Brockens.

6. *Cladonia cornucopioides* v. *pleurota* Nyl. Syn. p. 221 (subster.); am Rössenberq: Will Nr. 15.

7. *Stereocaulon magellanicum* Th. Fries Monogr. Stereoc. p. 55 (St. alpino β botryoso Laur. et Schaer. Enum. nimis affine) Hochplateau am Fuße des Rössenberges: Will Nr. 16 (ster.).

8. *Neuropogon melaxanthus* (Ach.) Nyl. Syn. p. 272; in dichten Rajen auf Felsen, sehr gemein: Will Nr. 6 pr. p. — *Neuropogon melaxanthus* β *sorediifer* Crombie in Journ. of the Linn. Soc. vol. XV. p. 182. — Mit der Normalform: Will Nr. 6 pr. p.

9. *Sticta endochrysea* Del. Stict. p. 43; in Menge am jüdischen Fuße des Rössenberges: Will Nr. 8 pr. p.

10. *Sticta Freycinetii* Del. Stict. p. 124; häufig am jüdischen Fuße des Rössenberges auf steinigem nur wenig grasigem Boden; Will Nr. 8 pr. p. (mixt. c. *St. endochrysea*).

11. *Psoroma hypnorum* β *deauratum* Nyl. Scand. p. 121; Landjunge: Will Nr. 12.

12. *Amphiloma elegans* β *granulosum*; *Parmelia elegans* b *granulosa* Schaer. Enum. p. 52; auf Felsen an der Landjunge: Will.

13. *Amphiloma millegranum* Müll. Arg. L. B. No. 990, thallus fulvus v. dein vitellino-fulvus, demum fere totus granulis irregularibus laevibus fere corallinis obtectus aut formatus; radii marginales brevissimi, apice valde applanati et minute albo-ciliolati; apothecia adpressa v. innato-sessilia, 1—1 $\frac{1}{3}$ mm lata, plana v. subplana, nuda, margine tenuiter prominente et valide granuligero cum thallo concolore cincta, discus margine leviter obscurior; sporae in ascis 8-nae, globoso-ellipsoideae, 11—14 μ longae et 8—11 μ latae. — Proxime accedit ad *A. granulosum* Müll. Arg., sed magis aurantiaco-fulvum, tenuius et copiosius granuligerum et lacinae ultimae apice adpresso-adplanatae (subinde obsoletae) et ciliolatae sunt. — Auf primitivem Gestein bei der Landjunge: Dr. Will.

14. *Amphiloma dimorphum* Müll. Arg. Lichenol. Beitr. Nr. 991; thallus aurantiaco-fulvus, fere undique crebre coralloideo-glebosus et feracissimus, laevis, ad peripheriam in lacinulas breves applanatas albido-ciliolatas abiens, haud granuligerus; apothecia 1—1½ mm lata, adpressa, saepe conferta et thallum fere obtegentia, plana v. demum convexa, margo integer et laevis, cum thallo concolor, demum obsoletus, discus margine paullo obscurior; sporae in ascis 8-nae, 13—16 μ longae, 5—7 μ latae, fusiformi-ellipsoideae. — Color thalli ut in *A. elegante* Korb., apothecia ut in *A. murorum* Korb. **Thallus fere** undique e lacinulis densis coralloideis ramulosis brevibus apice fertilibus formatus, ad peripheriam autem arcte adplanatus est ut in *A. millegrano* et *A. deplanato* Müll. Arg. *A.* simili *A. elegante* v. granuloso dein lacinulis apice applanatis nec turgido-convexis statim recognoscendum est. — Die Felsen an der Landzunge weit überziehend: Will Nr. 20.

15. *Sporastatia Morio* β coracina Th. Fries Arct. p. 224; am Vexirberg.

16. *Pertusaria* (s. *Ochrolechia*) antarctica Müll. Arg. L. B. No. 992; thallus albidus, e continuo et laevi mox rimoso-areolatus; areolae planae, contiguae, demum obsolete gibboso-inaequales et subrimulosae; apothecia primum depresso-hemisphaerica, crassissime obtuse marginata, demum sessilia, evoluta 3—4½ mm lata, margo prominens, crebre radiatim plicatulus, demum undulatus; discus concolor; lamina superne fuscescens, caeterum hyalina; sporae in ascis 4—8-nae, ellipsoideae, 55—65 μ longae et 27—33 μ latae, leptodermiae. — *A.* proxima *P. parella*, sc. *Lecanora parella* Ach., in eo differt, quod thalli areolae supra planae et apothecia duplo majora. — Auf Felsen am Vexirberg: Dr. Will et Schrader, und in der Magalhæenstraße am Port William Stanley: W. Lechler Nr. 53.

17. *Pertusaria lactea* Nyl. in Lamy Catal. p. 90; Südoftseite des Vexirberges, mehrfach aber bloß steril gesammelt.

18. *Heterothecium Willianum* Müll. Arg. Lich. Beitr. Nr. 993; thallus albus v. albidus, instratus, tenuiter tartareo-granularis, granula confluentia aut thallum varie subgranularem formantia, e substrato summopere varia: apothecia tota intense cinnamomeo-ferruginea, 1—2 mm lata, sessilia, crasse marginata, primum leviter urceolaria, demum subplana; margo minute verruculoso-exasperatus, caeterum integer, cum disco demum asperulo concolor; epithecium fusco-ferrugineum, lamina caeterum cum hypothecio hyalina; paraphyses capillares, facile liberae; asci angusti, superne pachydermei, 1-spori; sporae subhyalinae, 40—62 μ longae, circ. 25—27 μ latae, valde parenchymatosae, transversim circ. 15—18 septatae, loculi multilocellati. — Species insignis, affinis *H. Mariae* s. *Brigantiaeae Mariae* Trev. Brigant. in *Linnaea* v. 28. p. 285 et *H. leucoxantho* Mass. Esam. p. 17. — Wurzeln und abgestorbene Grasshalme überwuchernd am Meerufer bei der Station: Dr. Will Nr. 18.

19. *Lecidea* (s. *Lecidella*) *tenebrosula* Müll. Arg. L. B. No. 994; thallus cinereo — v. plumbeo — nigricans, opacus, diffracto-areolatus; areolae angulosae, planae; apothecia $\frac{3-4}{10}$ mm lata, innata, in areolis solitaria, semper plana, vix demum apice leviter emergentia, non distincte marginata, nigra et opaca, nuda, intus obscurata; epithecium atro-viride aut fere atro-caeruleum; lamina et hypothecium hyalina; paraphyses separabiles; asci sublineari-cylindrici, 8-spori; sporae subuniserialae, ellipsoideae aut ovoideae, 10—13 μ longae, 5 $\frac{1}{2}$ —6 μ latae. — Prope *L. subtenebrosam*, *L. umbricolorem* et *L. obumbratam* Nyl. locanda est, a quibus omnibus jam colore epithecii recedit. — Auf Felsen am Bergrberg: Dr. Will.

20. *Lecidea* (s. *Lecidella*) *protrudens* Müll. Arg. L. B. No. 995; thallus albidus, tenuis, minute rimuloso-areolatus; areolae angulosae, subplanae; hypothallus plumbeo-obscurus; apothecia in areolis solitaria, vulgo centralia, novella e centro hemisphaerico-protrudentia et tum quasi thallino-obvallata, dein plana, semper immersa, evoluta $\frac{3-4}{10}$ mm attingentia, subimmarginata et a thallo

circumscissa, tota nigra; epithecium virens: lamina hyalina; hypothecium hyalinum v. paullo obscuratum; sporae in ascis 8-nae, 11—13 μ longae, 6—7 μ latae, ellipsoideae. — Prope L. disjungendam Crombie Revis. of the Kerg. Lich. p. IV locanda est. — Am Veyrberg, aber höchst sparfam angetroffen: Dr. Will.

21. *Lecidea Dicksonii* Ach. Meth. p. 55; Thal des jüdischen Gletschers.

22. *Lecidea* (s. *Eulecidea*) *austro-georgica* Müll. Arg. L. B. No. 996; thallus cinereo-albidus, in hypothallo plumbeo-nigricante effusus, tenuiter rimuloso-areolatus, tenuis; apothecia evoluta $\frac{5-9}{10}$ mm lata, crassiuscula, adpresso-sessilia, primum crasse involuto-marginata et urceolari-concava, demum minus concava, tota nigra; discus opacus, margo paullo nitidulus; epithecium nigro-viride; lamina hyalina; epithecium fuscescens aut fuscum; paraphyses subseparabiles; sporae in ascis 8-nae, subbiseriales, 9—11 μ longae et $4\frac{1}{2}$ — $5\frac{1}{2}$ μ latae, ellipsoideae, utrinque rotundato-obtusae. — Prima fronte L. vorticoseam Flk. fere simulat, sed thallus et apothecia differunt. Apothecia longe magis emersa et crassius marginata sunt quam in L. confluenta Ach. — Au Selsen.

23. *Buellia stellulata* Mudd Man. p. 216; auf Selsen am Veyrberg.

24. *Buellia subconcava* Müll. Arg. L. B. No. 997; thallus subtenuis, fuscidulo-cinereus v. fuscidulo-glaucus, crebre diffracto-areolatus; areolae planae, angulosae, gibboso-inaequales; apothecia copiosa, nigra, $\frac{1}{2}$ mm lata, inter areolas innato-sessilia, demum distinctius emergentia, concava, prominenter et tenuiter marginata, nuda, opaca; margo demum subundulatus; epithecium fuscum; lamina hyalina; hypothecium superne late pallidum, inferne crassum et fuscum; asci 8-sporei; sporae 12—17 μ longae, 6—9 μ latae, ellipsoideae, vulgo utrinque late rotundato-obtusae, medio leviter constrictae. — Valde affinis nostrae B. concavae brasiliensi, sed thalli areolae majores, haud laeves, non albae, apotheciorum discus magis concavus, hypothecium inferne longe

crassius fuscum et sporae ambitu latiores. — Auf der Insel östlich der Landzunge.

25. *Buellia austro-georgica* Müll. Arg. L. B. No. 998; thalli areolae in hypothallo nigro demum grisello sparsae, planae, angulosae, plicatulae, viridi-citrinae, circiter $\frac{1}{2}$ mm latae; apothecia inter areolas sita iisque paullo minora, angulosa, immersa, plana, tenuiter et prominenter nigro — v. demum cinerascenti — marginata, nigra, opaca; epithecium fusco-nigrum v. subviolaceo-nigrescens; lamina hyalina; hypothecium pallide fuscum, haud crassum; sporae in ascis glomeratae, 2-loculares, olivaceo-nigricantes, 12—14 μ longae, 7 μ latae, medio subconstrictae; loculi vix inaequales. — Similis *Buelliae* effiguratae Anzi aut *Rhizocarpi geographici* varietati atrovirenti, sed thallus pallidior, areolae planae et sporae parvae, aliter constructae, halone distincto carentes. — Beyirberg: Will.

26. *Rhizocarpon geographicum* α *contiguum* Mass. Ric. p. 100; Beyirberg: Will. — *Rhizocarpon geographicum* v. atroviride Müll. Arg. L. B. No. 999; thalli areolae discretae et insulatim confertae, parvae et planae, flavo-virides, laevigatae; apothecia inter areolas in hypothallo copioso aterrimo conferta, subcontigua et subangulosa, immersa, concava. — Sporae cum specie conveniunt. — Praeter areolas planas et apothecia immersa omnino nigra omnia sunt ut in *Rh. geographici* v. atrovirente. Tota obscurius colorata est quam *Rh. geographicum* α *contiguum*. — Mit der vorigen Varietät.