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Lichenes Australiae occidentalis

a cl. Helms recenter lecti et a celeb. Bar. Ferd. v. Mueller communicati, quos enumerat

Dr. J. Müller.

Trib. Omphalarieae.

1. *Pyrenopsidium decorticans* Müll. Arg.; thallus olivaceo-nigricans, demum decorticando obscure fusco-purascens, diffracto-areolatus; areolae $\frac{1}{2}$ mm latae et 2—3-plo minores, convexulae, hinc inde paucae connatae, fertiles quasi in apothecium hemisphaericum vertice latiuscule foveolatum et sat regulare et laeve abeuntes; discus poriformis; sporae in ascis circ. 30—40, globosae et globoso-ellipsoideae, circ. 5—7 μ longae; gonidia saltem pro magna parte rubricosa, vulgo didyma, hyphis varie moniliformibus cincta. — Species nulli nisi septentrionali *Pyr. granuliformi* Forss. Gloeolich. p. 60 (Norrl. Hb. Lich. Fenn. n. 354) affinis est et ab ea jam extus forma et colore areolarum laevium et ostiolis amplioribus differt. — In West Australia ad saxa silacea: Helms (25. 5. 1891): n. 70.

Trib. Cladonieae.

2. *Clathrina retipora* Müll. Arg. L. B. n. 589; *Cladonia retipora* Flk. Clad. p. 181; Karolin, West Australia: H. n. 53 (ster.).

3. *Clathrina aggregata* Müll. Arg. L. B. n. 589; *Cladonia aggregata* Eschw. Bras. p. 278; terricola ad Wal-langering in Australia occidentali: Helms n. 57.

4. *Cladonia alcicornis* v. *firma* Nyl. Syn. p. 191; ad terram deserticam in Australia occidentali: H. n. 14, 18, 63 (ster.).

5. *Siphula caesia* Müll. Arg.; podetia laxe caespitosa, circ. 6—12 mm alta, suberecta, superne undique caesia, in-

ferne ochraceo-pallida, et e basi subtereti longe albo-radiculosa, superne flabellatim divisa, divisiones compressae, crassae, 1—2 mm latae, nonnihil crenato-lobulatae et apice bifido saepe transversim dilatatae. — Apothecia ignota. Gonidia vulgaria, globosa, circ. 7 μ lata. — In lobulis hinc inde occurrunt gibbositates erumpentes, majusculae, nigrescentes, initia apotheciorum, secus lineam leviter intramarginalem sitae, sed fructificationis elemente haud ostendunt. Affinis est *S. coriaceae* Nyl. — Terricola in Frasers Range, Australiae occid.: Helms n. 13.

Trib. **Heterodieae.**

6. *Heterodea Mülleri* Nyl. Syn. L. Nov. Caled. p. 9; Everard Range et Wallangering aliisque locis Australiae occid.: Helms n. 10, 20, 56.

Trib. **Usneae.**

7. *Usnea barbata* v. *scabrida* (Tayl.) Müll. Arg. Lich. Nov. Gran. n. 20; ramulicola, Frasers Range (sine n^o).

— — v. *xanthopoga* Müll. Arg. L. B. n. 1476; ramulicola, Frasers Range: Helms n. 29, 45.

— — v. *elegans* Müll. Arg. L. B. n. 1476; ramulicola, Frasers Range: Helms n. 46.

Trib. **Parmeliaceae.**

8. *Theloschistes chrysophthalmus* v. *Sieberianus* Müll. Arg. L. B. n. 581; ramulicola, Frasers Range: H. n. 4.

9. *Xanthoria parietina* Norm. Conat. praemiss. p. 17; rami-ramulicola, in Frasers Range: Helms n. 27, 40 pr. p.

10. *Xanthoria controversa* (Mass.) v. *laciniosa*; *Parmelia parietina* v. *laciniosa* Duf.; Schaer. Enum. p. 51; ramulicola, Frasers Range: H. 5 et 40 pr. p.

11. *Physcia stellaris* v. *acrita* Nyl. Scand. p. 111; ramicola, Everard Ranges: H. n. 59.

12. *Physcia obscura* Nyl. Syn. p. 112; lignicola, Everard Ranges: H. n. 60, 22 pr. p.

— — v. *virella* Th. M. Fries Scand. p. 142; corticola, Everard Ranges: H. n. 39.

13. *Parmelia hypoleuca* f. *coralloidea* Müll. Arg. L. B. n. 1145; W. Australia: H. n. 31, 79 (ster.).

14. *Parmelia tiliacea* v. *minor* Müll. Arg. L. B. n. 46; corticola, Frasers Range: H. n. 9, et Everard Ranges: H. n. 22, 32, 36.

15. *Parmelia rutidota* Hooh. f. et Tayl. in Lond. Journ. of Bot. III. 1844. p. 645; corticola, Everard Ranges: H. n. 23, 33, 38, et Frasers Range: H. n. 2, 75; ad Karolin: H. (sine n^o).

16. *Parmelia conspersa* Ach. Meth. p. 205; saxicola, Fraser's Range: H. n. 1.

— — v. *corallina* Krplh. Lichfl. Bay. p. 135 in Australia occid., Camp. 7 et 12: H. (sine n^o, ster.).

— — v. *hypocleista* Nyl. Syn. p. 391; saxicola, Camp. 7: H. n. 95.

— — f. *isidiosa* Müll. Arg. L. B. n. 575; Everard Ranges et in ejusd. vicinitate, ad saxa et ad terram sabulosam: H. n. 37, 78, 93.

— — v. *stenophylloides* Müll. Arg.; thalli laciniae breves, angustiores, subadpressae, subtus pallidae; saxicola, Everard Ranges: H. n. 86, 95, et Depot n. 1. (16./6. 91): H. sine n^o.

— — v. *stenophylla* Ach. Meth. p. 206; saxicola, Camp. 10: H. n. 80, Camp. 12: H. n. 91.

— — isidiosa, thallus modice isidiosus; saxicola, Everard Ranges: H. n. 92, et in desertis Victoria: H. n. 67, 98.

17. *Parmelia adpressa* Krplh. Lich. Glaz. p. 15; Australia occid.: Helms n. 69 (ster.).

18. *Parmelia congruens* Ach. Univ. p. 491, Sw. L. Amer. t. 4; ad terram sabulosam, Frasers Range: H. n. 30; ad Karolin: H. n. 54; ad Camp. 7 et alios: H. n. 12, 61, 64.

19. *Parmelia amphixantha* Müll. Arg. L. B. n. 1312; ad terram, Frasers Range: Helms n. 3, 44.

20. *Parmelia hypoxantha* v. *major* Müll. Arg. L. B. n. 579; ad terram, Frasers Range: H. n. 43, 73 (ambae ster.).

21. *Parmelia dendritica* Pers. Wett. II. p. 16; saxicola, Frasers Range: Helms, et Victoria Desert: Helms n^o 50.

— — f. *fuliginosa* (Fr.); saxicola, West Australia: Helms (first expedition).

Trib. **Pannarieae.**

22. *Heppia australiensis* Müll. Arg.; thalli squamae obscure olivaceo-virentes, confertae, 1—2½ mm latae, crassiusculae, ex orbiculari obtuse angulosae v. margine demum minute adscendenti-microlobae; gonidia olivacea, glomeruloso-composita; apothecia solitaria, minuta, evoluta ¾—1½ mm lata, rufo-fusca et plana, superficie scabrida, hinc inde annulo tumente thallino nano cincta, caeterum superficiem thalli non excedentia; epithecium fulvum, lamina caeterum hyalina; asci fusiformi-ovoidei, polyspori; sporae globosae, 3½—5 μ diametro aequantes. — Species insignis, ad *Heppiam psammophilam* Nyl. Symb. Sahar. e Biskra n. 10 accedens, sed macrocarpa, et sporae minores, squamae

non insculptae. — Ad terram in Western Australia, prope Everard Range: Helms n. 35.

23. *Heppia acarosporoides* Müll. Arg.; squamae nigrescenti-olivaceae, $\frac{1}{2}$ —1 mm latae, orbiculares, integrae v. margine leviter undulato-crenatae, fertiles hemisphaericae, monocarpicae, in margine adpressae, haud insculptae; gonidia olivacea, modice composita; apothecia demum $\frac{1}{3}$ mm lata, regularia, immersa, non prominentia thallina cincta; discus nigro-fuscus, depressus, nudus; sporae in ascis numerosae, $4\frac{1}{2}$ —6 μ longae, globoso ellipsoideae. — Affinis *H. australiensi*, sed squamulae aliae. Habitu bene accedit ad *Placodium castaneum* (Körb.), sed gonidia sunt absolute alia. — Ad terram in Western Australia, Camp. 1: H. sine n^o.

Trib. **Placodieae.**

24. *Amphiloma murorum* v. *miniatum* Körb. Syst. p. 111; saxicola, Australia occid., Camp. 17: Helms n. 74.

— v. *obliteratum* Körb. Syst. p. 111; saxicola, Frasers Range: H. n. 89.

— v. *areolatum* Müll. Arg.; thallus crebre subareolatus, areolae periphericae hinc inde obsolete radiantes, turgidae, subtiliter crebre verruculosae, ochraceo-aurantiacae. — Sporae ut in specie. — Quasi forma oblitterata varietatis *aurantiacae*. — Saxicola, in Australia occidentali: Helms n. 71.

25. *Placodium fulgens* v. *bracteatum* (Ach.) Müll. Arg. Lich. Pers. n. 14; Austr. occid., Depot 1: H. sine n^o (vestigia ster.).

26. *Placodium cervinum* v. *percaenum* (Schaer.) Müll. Arg. L. Pers. n. 23; calcicola, Frasers Range: H. n. 88; Camp. 17: H. sine n^o.

27. *Placodium citrinum* Müll. Arg. L. B. n. 1414; *Urceolaria citrina* Tayl. in Hook. Journ. of Bot. 1847 p. 158; *Lecanora xanthophana* Nyl. L. And. Boliv. p. 379; Lichen in Australia occidentali sicciore vulgaris, at rarius bene evolutus, habitu, magnitudine squamularum et colore flaviore aut magis virente eximie varians, caeterum ad saxa et ad terram crescens; Everard Ranges: H. n. 25, 85 et in vicinitate variis locis: H. n. 15, 65, 66, 94.

Trib. **Psoreae.**

28. *Psora decipiens* Hoffm. Lichenos. t. 43 fig. 1—3; Mass. Ric. p. 91; ad terram Everard Ranges: H. (sine n^o), Depot 1: H. n. 17; in Victoria Desert: H. n. 77.

29. *Psora psammophila* Müll. Arg.; thalli squamae $\frac{1}{2}$ —2 mm latae, glauco-virentes, mutua pressione demum

angulosae, caeterum orbiculares, planae, undulatim, gibboso-inaequales, undique adnatae; apothecia $\frac{1}{2}$ —1 mm lata, nigra, plano-convexa, primum tenuissime marginata, mox dein immarginata, saepe demum varie in majora composita confluentia, intus nigra; epithecium et hypothecium nigrofusca; sporae octonae, ellipsoideae, 8—10 μ longae, circ. 6 μ latae. — A proxima *Ps. glauca* (Tayl.) Müll. Arg. L. B. n. 1423 recedit squamis planis, tenuibus, aliter coloratis et sporis minoribus et colore thalamii. — Ad terram sabulosam Australiae occid. deserticae: Helms n. 24 (28.5. 1891 lecta).

30. *Thalloidima australiense* Müll. Arg. L. B. n. 1158: ad terram prope Wallangaring Australiae occid.: H. sine n^o, sterile.

31. *Catolechia glomerulans* Müll. Arg.; thallus olivaceo-nigricans, squamulosus; squamulae parvae et glomeruloso-aggregatae, bullato crassae, ambitu obtuse lobulatae, totae adnatae; apothecia $\frac{1}{2}$ mm lata, sessilia, nigra, plana, opaca, tenuiter et vix prominenter marginata, dein immarginata; epithecium nigro-fuscum, lamina fuscidula, hypothecium late obfuscum, paraphyses conglutinatae; sporae in ascis angustis 8-nae, 2-loculares, 12—14 μ longae, 5—6 μ latae, ellipsoideae et obovoideae, utrinque late obtusae, medio obsolete constrictae. — Thallus primo intuitu e globoso-crustaceo in glomerulosum disruptus videtur, at squamulae cujusvis pulvinuli in peripheria hinc inde distincte leviter lobatae sunt. Apothecia in quoque glomerulo plura. — Prope *C. badiam* (Fr.) Müll. Arg. Lich. Costar. no. 58 inserenda est. — Ad terram sabulosam rubidam prope Wallangering: H. n. 55.

32. *Catolechia subcoronata* Müll. Arg.; thalli squamae olivaceo-albidae, adnatae, orbiculares et obtuse angulosae, sat confertae, planae, gibboso-inaequales et demum reticulatim insculptae, circ. 1—1 $\frac{1}{2}$ mm latae; apothecia nigra, circ. 1 mm lata, erumpentia, margine thallino accessorio grosse dentato-coroniformi et mox evanescente cincta, dein margine tenui nigro integro mox recluso cincta, demum convexa et immarginata, nuda et opaca; epithecium et hypothecium nigro-fusca; sporae 8-nae, ellipsoideae, subbis-coetiformes, biloculares, 12—16 μ longae, 5—7 μ latae. — Prima fronte potius speciem *Thalloidimatis* simulans, sed sporae ut in *Buellia*. — Ad terram in Australia desert. occid., Depot 1: Helms n. 26, et ad Wallangering: Helms (sine n^o).

33. *Catolechia marginulata* Müll. Arg.; thalli squamae laete glaucae, convexae, crassulae, 1—1 $\frac{1}{2}$ mm

latae, nonnihil obtuse angulosae, ambitu linea albicante cinctae et superficie polito-laeves; apothecia nigra, copiosa, $\frac{1}{2}$ —1 mm lata, novella haud coronata, sessilia, semper tenuiter nigro-marginata; epithecium et hypothecium nigro-fusca; sporae 8-nae, ellipsoideae, circ. $12\ \mu$ longae et $7\ \mu$ latae. — Affinis *C. subcoronatae*, sed squamularum minorum et crassiorum et eleganter marginatarum superficies alia et apothecia juniora non coronata. — Ad saxa arenacea in Everard Ranges: Helms n. 96.

Trib. **Lecanoreae.**

34. *Callopisma aurantiacum* Mass. Syn. L. Blaster. p. 9; saxicola, Frasers Range et Camp. 2: Helms (sine n^o). — — v. *granulare* Müll. Arg. L. Parag. n. 82; corticola, Frasers Range: Helms n. 10 (parce fertile).

35. *Lecanora subfusca* v. *campestris* Schaer. Enum. p. 75; saxicola, West Australia (sine loci indic. et sine n^o).

36. *Lecanora caesio-rubella* Ach. Univ. p. 366; corticola, Frasers Range, cum *L. pallescente* Fr. mixta.

37. *Lecanora sphaerospora* Müll. Arg.; thallus albidus, confertim v. sparsim glebuloso-areolatus; areolae irregulariter orbiculares, convexae, impresso-punctatae; gonidia globosa (vulgaria); apothecia in areolis solitaria iiscum primum apothecia late albo-marginata formantia, demum tenuiter albo-marginata; margo vix prominens, undulatus, intus linea tenui nigra zeorina haud emergente praeditus; discus planus, 1— $1\frac{1}{2}$ mm latus, caesio-niger; epithecium nigro-fuscum; hypothecium hyalinum; sporae in ascis 8-nae (semel 12 visae), vulgo biseriales, semper accurate globosae, diametro 6— $8\ \mu$ aequantes. — Species forma sporarum insignita, habitu ad *L. sordidam* Th. Fr. accedens et statu juniore fere *Lecanoram Hoffmanni* (sed albior) referens. — Saxicola, Frasers Range, a cl. Helms jam 24. Oct. 1871 lecta: Helms n. 87.

38. *Lecanora calcarea* Smft. v. *caesio-alba*; *Aspicilia contorta* v. *caesio-alba* Körb. Syst. p. 166; saxicola, Frasers Range (sine n^o).

39. *Lecanora pallescens* Fr. Lich. Europ. p. 132 corticola, Frasers Range: Helms n. 7, 8.

40. *Rinodina Bischoffii* Mass. Framm. p. 26; saxicola, Frasers Range: Helms (sine n^o).

41. *Diploschistes scruposus* Norm. v. *arenarius* (Ach.); *Urceolaria scruposa* v. *arenaria* Ach. in Schaer. Spicileg. p. 75; ad terram arenosam, in Frasers Range et in ejusdem vicinitate: Helms n. 76, et n. 42.

Trib. **Lecideeae.**

42. *Blastenia ferruginea* Massal. Syn. Lich. blasteniosp. p. 14; corticola, Frasers Range: Helms n. 6.

43. *Lecidea planata* Müll. Arg. L. B. n. 1082; *L. plana* Krph. Austral. n. 113, non Lahm; ad terram prope Wallangering: Helms n. 58, 72.

44. *Lecidea* (s. *Sarcogyne*) *pruinosa* var. *minuta*; *Sarcogyne pruinosa* v. *minuta* Mass. Sched. crit. n. 335; saxicola, Frasers Range: Helms (sine n°).

45. *Buellia tetrapla* (Nyl.) Müll. Arg. L. B. n. 1312; corticola, Frasers Range: Helms n. 11.

46. *Buellia inturgescens* Müll. Arg.; thallus ochroleuco-albidus, crassiusculus, diffracto-areolatus; areolae primum confertae, planae, angulosae, dein subdistantes et turgido-convexae, laeves sed opacae, apotheciis evolutis minores; apothecia aterrima, opaca, sessilia, $\frac{1}{2}$ — $\frac{4}{5}$ mm lata, e plano et tenuiter marginato demum convexa et immarginata; epithecium caerulescenti-aut virenti-nigrum; hypothecium fuscum; sporae 8-nae, 9—11 μ longae et circ. 6 μ latae. — A proxima abyssinica *B. toninioide* Bagl. recedit apotheciis magis superficialibus, nec ex immerso adpressis et epithecio non fusco. — Graniticola in desertis Australiae occid., ad expeditionis Camp. n. 14: Helms n. 81.

47. *Buellia spuria* (Schaer.) Körb. Par. p. 183; saxicola, Australia occid.: Helms n. 68.

48. *Buellia subalbula* Müll. Arg. Lich. Aegypt. n. 49; *Lecidea subalbula* Nyl. Lich. Angol. p. 11 et Lich. Larbal. n. 12; calcicola, Australia occid., Camp. 1 et 2: Helms n. 47.

49. *Buellia stellulata* (Tayl.) Mudd Man. p. 216; saxicola, West Australia: Helms n. 84.

50. *Buellia desertorum* Müll. Arg.; thallus argillaceofuscus, crebre et minute diffracto-areolatus, areolae subcontiguae, angulosae, planae, medio concaviusculae, vix apotheciis aequilatae; apothecia $\frac{1}{4}$ — $\frac{1}{3}$ mm lata, sessilia, juniora margine accessorio fugace pallido et tenuissimo mox evanescente praedita, demum alte convexa; epithecium et hypothecium fusca; sporae 8-nae, globoso-ellipsoideae, 7—9 μ longae et 6—7 μ latae, 2-loculares. — Juxta *B. fuscellam* Müll. Arg. L. B. n. 1438 locanda est, a qua jam apotheciis non adpressis mox elato-convexis et colore thalli differt. — Saxicola in West Australia, sc. in deserto Victoria (Helms n. 51).

Trib. **Endopyrenieae.**

51. *Endocarpon Helmsianum* Müll. Arg., thalli squamae fusciscenti-argillaceae, 5—13 mm latae, suborbiculares, margine paullo angulosae aut leviter crenato-lobulatae,

planacae v. planiusculae, subundulato-inaequales, coriaccae, demum reticulato-insculptae, polycarpicae, subtus copiose et longe nigro-rhizinosae; perithecia innata, integre nigroglobosa, circ. $\frac{1}{3}$ mm lata; ostiolum haud prominens, disculo orbiculari thallino fere $\frac{3}{10}$ mm lato pallido-nigrescente centro pertuso et linea nigra circumscripto indicatum; sporae in ascis geminatae, superpositae, fuscae, circ. 35—50 μ longae et 12—18 μ latae, ambitu valde ludentes, crebre parenchymatosae; gonidia thalli subglobosa, 6—9 μ lata, hymenialia valde copiosa, 4—8 μ longa, vulgo 2—3-plo longiora quam lata, cylindrico-ellipsoidea. — Est species insignis, robusta, macrocarpa, gonidiis hymenialibus oblongatis. — Ad terram in Australia occid. (Camp. 2) a cl. Helms de Lichenologia Australiae occid. bene merito lecta et a cel. F. v. Mueller sub n. 62 missa.

52. *Endopyrenium hepaticum* Körb. Par. p. 302; West Australia: Helms (sine n^o).

Trib. *Pyrenuleae*.

53. *Verrucaria calciseda* DC. Fl. Fr. p. 317; saxicola, Frasers Range: Helms (sine n^o).

Appendix.

54. *Lepra citrina* Schaer. Spicil. p. 2; corticola, Everard Ranges: Helms n. 21.

Hepaticae africanae.

Von F. Stephani, Leipzig.

(Mit Tafel XIX—XXI.)

(Fortsetzung.)

V. Mascarenen & Madagascar.

Die nachstehend beschriebenen Pflanzen wurden bereits früher theils in der Bot. Gazette, theils im Bull. de la Soc. roy. de bot. de Belgique publicirt und werden hier der Vollständigkeit halber der Arbeit über die Hep. afr. angeschlossen.

Aneura caespitans St. — Dioica. *Rufo-fusca, tenax, majuscula, laxe caespitosa.* Frons 3—4 cm longa, irregulariter pauciramosa, ramis longis dense pinnatis, pinnis angustis; antice subplana, postice valde convexa, margine abrupte attenuato, medio 10 cell. crassa; cellulae corticales minutae, internae multo majores aequales. Flores feminei juniores solum vidi.

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