längert, ohne indessen über die Erde zu treten. Er zog sich nur im Bogen aufwärts, weil die beiden Spreiten durch die Samenhaut zusammengehalten wurden. Bei einem anderen Exemplare (fig. 8.) war der Endlappen des dreitheiligen Laubblattes gespalten, und es hatte sich noch ein kleineres, normal dreitheiliges Blatt gebildet. Ein drittes Exemplar endlich brachte statt eines dreitheiligen, ein ungetheiltes Laubblatt hervor. (fig. 9.)

Die weitere Entwickelung, im zweiten Jahre, konnte ich leider nicht verfolgen, weil die Pflanzen den Winter über zu Grunde gingen. Indessen lässt sich erwarten, dass sich in dem nächsten und vielleicht in den darauf folgenden Sommern ebenfalls nur einzelne Laubblätter — ob mehrzählige? — bilden, bis die Pflanze blühbar wird.

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Erklärung der Figuren.

fig. 1. Same der *Dentaria pinnata* Lmk. Natürl. Grösse.
„ 2. Keimpflanze im Alter von etwa 3 Wochen. N. 5.
„ 3. Etwas ältere Keimpflanze. N. 5.
„ 4. Keimpflanze nach etwa 8 Wochen. N. 5.
„ 5. Keimpflanze nach Entfernung der Samenhaut und der Cotyledonen-Spreiten. Ein wenig vergrössert.
„ 6. Keimpflanze Ende Juni. N. 5.
„ 7. 8. 9. Anomal gebildete Keimpflanzen.
Bei + das Niveau des Erdbodens.

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## *Lichenes,*
## collecti in republica Argentina a Doctoribus Lorentz et Hieronymus,

determinati et descripti a Doct. A. de Krempelhuber, Monacensi.

(Finis.)

74. *Pertusaria decussata* Krphb. sp. n.

Thallus parvus cinerascens vel albidus, tenuis aut tenuissimus, continuus, linea nigricante irregulariter cinctus, plerumque specimina plura confluentia, corticem obtegentia, itaque thallum unicum a lineolis nigricantibus irregulariter decussatum efformantia; apothecia sat parva, unum vel 2—3 in protuberantiis thallinis (lat. vix 0,6—0,7 mm.), parum prominulis inclusa, numerosa, aggregata vel gregatim disposita, rarius dispersa, ostiolis punc-

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tiformibus nigricantibus, haud prominulis; sporae 2nae in thecis, long. 0,66—0,77, crass. 0,28—0,30 mm.

Ad corticem laevigatam ramorum, non raro.

Species parvula, sed jam apotheciis numerosis minutis nigro-ocellatis et thallo lineolis nigris angustis irregulariter decussato conspicua. *Pert. thelocarpoides* Nyl., praesertim vero *P. albidella* Nyl. videntur affines.

75. *Pertusaria chiodectonoides* Fée Ess. p. 67, tab. XIX. fig. 4 sub *Trypethelio*; Supplem. p. 73 sub *Pertusaria.*

Ad corticem arborum (Cebil) in silvis prope Oran.

Sporae 2 in asco, incolores, forma solita in genere, long. 0,074—077, crass. 0,028—030 mm.

76. *Pertusaria melanostoma* Krph. sp. n.

Thallus lacteus, tenuissimus, inaequalitates substrati continue sed irregulariter obducens, determinatus; apothecia numerosa, porinoidea, sc. verrucas hemisphaericas vel mammillosas, thallo concolores, prominulas (lat. circ. 1,3—1,4 mm.), efformantia; hae verrucae plerumque monopyrenae, ostiolis 1—4 minutissimis, atromarginatis vel prominentiis levibus minutis, rotundis, nigris, integris aut perforatis in vertice instructae; sporae 4—8, solitae generis, hyalinae, quoad magnitudinem valde variantes, long. 0,048—072, crass. 0,019—030 mm.

Ad cortices.

Species thallo lacteo et verrucis porinoideis concoloribus, apice punctis atris (maculaeformibus) aut prominentiis rotundis, minutis, nigris ornatis, satis distincta videtur.

77. *Coenogonium interplexum* Nyl. Observ. sur les Coenog. p. 92.

Corticola, sterilis (Unicum!). Filamenta thalli crass. 0,013—014 mm., striata et nodosa.

Determinatio ob apoth. defic. non omnino certa!

78. *Lecidea* (*Buellia*) *lactea* Koerb. Syst. p. 183; *Buellia italica* v. *lactea* Mass. Sched. crit. p. 163, Lich. Italic. exs. N. 301.

Ad rupes micaceas non infrequens.

79. *Lecidea myriocarpa* (Decand.).

Sporae olivaceae, oblongae, long. 0,011—013, crass. 0,06—07 mm.; apothecia valde minuta, diam. 0,3—0,5 mm.

Ad ramos ramulosque.

80. *Lecidea russula* Ach. meth. p. 161, Syn. p. 40 (non Fée).

Ad cortices.

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81. *Lecidea modesta* Krph. in E. Warming, Symbol. ad flor. Bras. Lichenes, p. 387.

Corticola.

Thallus hydrate Kalico intense rubescit.

82. *Lecidea icterica* (Montag.) in Ann. sc. nat. Bot. 1834. ser. 2. tom. 2. p. 373 (sep. p. 6.)

Ad terram nudam lutosam (Unicum!).

83. *Lecidea (Biatora) maculans* Krph. sp. n.

Thallus sordide umbrinus vel fuligineus, maculam mediocrem, tenuem, irregulariter dilatatam, sed distinctam et valde evidentem in cortice efformans; apothecia dispersa, atra, valde minuta (vix 0,6—0,7 mm. lat.), sessilia, immarginata aut obsolete marginata, convexa, intus nigricantia; sporae 8nae, ellipsoideae, olivaceae, biloculares, medio 1 septatae, long. 0,018—020; crass. 0,006—008 mm.; paraphyses gracillimae, discretae, flexuosae, capitulis fuscis.

Ad cortices.

Affinis *Lecid. chalybeiae* Borr., differens ab hoc praesertim sporis majoribus et colore thalli.

84. *Lecidea (Biatora) silvana* Koerb. Syst. Lich. Germ. p. 200.

Ad ramos ramulosque prope urbem Concepion del Uruguay. (Unicum in coll.!)

85. *Lecidea russeola* Krph. sp. n.

Thallus sordide glaucescens, minute granulosus subleprosus, continuus, determinatus; apothecia dispersa, numerosa, sessilia (lat. circ. 0,5—1,0 mm.), atrosanguinea, vel nigro-rufa, disco plano aut convexulo, a margine proprio tenui (in junioribus margine leviter pallescente), interdum evanido cincto; hypothecium rufum; sporae 4—6, aciculares, rectae, pluries septatae, long. 0,050—066, crass. 0,002—003 mm.; paraphyses gracillimae, dense stipatae et conglutinatae, sed conspicuae.

Ad cortices.

Apothecia quoad magnitudinem inaequalia, numerosa, plana fere adpressa. Affinis *Lecideae spadiceae* Tuckerm., a qua differt apotheciis majoribus, intensius coloratis, alia indole et colore thalli; affinis etiam *Lecideae fusco-rubellae* Ach., forma alia apotheciorum et thalli recedenti; forsan etiam affinis *Lecideae vestitae* (Mont.) Nyl., quae species vero e descriptionibus nubilosis et vacillantibus a Montagne et Nylander ad eam datis non certe dignoscenda est.

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Forsan haec dubia species nil est, nisi varietas *Lecideae spadiceae* vel *L. fusco-rubellae*.

86. *Lecidea fusco-cervina* Krph. sp. n.

Thallus crustaceus fuscus vel fuscescens, tenuis, leviter rugulosus, irregulariter dilatatus sed ambitu linea angusta nigra limitatus; apothecia numerosa, mediocria (lat. circ. 1,2 mm.), atra, sessilia, disco plano, nudo, juniora leviter cinereo- aut glauco-pruinosa, margine tenui proprio, integro et persistente cincto; sporae 8nae, fusiformes, hyalinae, 10—14-septatae, long. 0,043—045, crass. 0,004—006 mm.; hymenium fuscum, hypothecium atrofuscum, paraphyses fuscae, breves, firmulae.

Ad cortices.

Species colore fusco thalli insignis, affinis *Lecideae coniochlorae* Mont. et v. d. B. et *Lecideae premneae* Ach., a priore colore thalli et margine apothecii non granulosa, a postrema etiam colore thalli et sporarum forma satis diversa.

87. *Lecidea crocina* Krempelh. sp. n.

Thallus crustaceus, cinerascens, tenuis, rugulosus, maculam minorem (lat. circ. 20—25 mm.). irregularem, determinatam, inter alios lichenes efformans; apothecia numerosa, minora (diam. circ. 1,0 mm.), sessilia, disco rufo, plano, margine proprio, croceo, crassiusculo, integro et persistente, cincto; sporae 8nae hyalinae, ellipsoideae, intus utroque apice loculum et interdum tubulum tenue jungentem offerentes, long. 0,017—018, crass. 0,006—007 mm.; paraphyses gracillimae, conglutinatae, sed conspicuae; hypothecium albidum vel pallido-lutescens.

Ad cortices (ut videtur raro).

Apothecia hujus speciei illis *Lecideae leucoxanthae* (Spr.) similia, sed minora.

88. *Lecidea alutacea* Krph. sp. n.

Thallus pallido-lutescens, tenuiter alutaceus, continuus, ambitu linea gracili atra cinctus; apothecia minora (lat. circ. 1,0 mm.), pallido-carnea aut carneo-fuscescentia aut carneo-fusca, sessilia, dispersa, plana et tenuiter marginata, margine vulgo pallidiore, aut convexula et margine subevanido, nuda; sporae 8nae aciculares, rectae vel parum flexae, pluries septatae, long. 0,039—061, crass. 0,003 mm.; paraphyses non discretae; hypothecium pallido-carneum vel pallidum.

Ad cortices, in consortio *Lecideae millegranae* (Tayl.).

Affinis *Lecideae millegranae* (Tayl.), sed differens co-

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lore thalli alutacei laeviusculi, a linea gracili atra cincti, sporis brevioribus etc.

Et *Lecidea vestita* (sensu Nyland.) comparanda sit.

var. *rufa* Krph.

Apotheciis fuscis vel rufis, plerumque planis, evidentius marginatis.

Ad ramos arborum.

89. *Lecidea ferruginea* (Huds.).

var. *cinereofusca* (Ach.).

Corticola, socia *Lecan. subfuscae* v. *coilocarpae* Ach. et *Lecideae maculantis* Krph. (Unicum!).

Sporae 8nae, incolores, long. 0,013—014, crass. 0,006—007 mm. (placodinae).

90. *Graphis Achari* Fée Ess. p. 39; tab. X. fig. 4.

Ad cortices.

91. *Graphis tenella* Ach.

Corticola, prope Oran.

92. *Graphis obuncula* Krph. sp. n.

Thallus albidus vel sordide albidus, tenuis, ambitu a limbo latiusculo fusco-nigricante cinctus; apothecia lirellaeformia, numerosa, lirellae prominulae, tumidulae (crass. circ. 0,8—1,0 mm.), simplices, breves ellipticae vel elongatae, sublanceolatae, (long. 3,0—4,0 mm.), nonnihil flexae, anfractuosae et reduncae, (non furcatae), a thallo omnino obductae huicque concolores, epithecio rimiformi et marginibus (labiis) plerumque tenuissime striatulis, excipulo fuscidulo vel albido (non atro); sporae 4—8nae, ellipsoideae vel fusiformi-ellipsoideae, hyalinae, muraliformes, long. 0,057—060, crass. 0,015—017 mm.

Ad ramos ramulosque arborum et fructicetorum, plagas minores in cortice inter alios lichenes obducens.

Species facie *Graphidis frumentariae* Fée.

93. *Graphis striatula* (Ach.); *Opegr. rimulosa* Mont. Syll. p. 349.

Ad cortices.

94. *Graphis componens* Nyl. Prodr. Lich. Nov. Gran. p. 132.

Ad ramos arborum.

Monospora, spora oblonga, hyalina, murali-divisa, long. 0,066—070, crass. 0,017—019 mm.

Labia (margines) lirellarum, tenuiter thallino-obducta semel vel bis striatula.

95. *Graphis (Fissurina) gracillima* Krph. sp. n.

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Thallus sordide albidus, tenuis, continuus, rugulosus, opacus, ubique ab apotheciis, fissuras gracillimas, elongatas, leviter thallodice marginatas et vario modo flexuosas et ramosas, partim etiam anastomosantes efformantibus, persulcatus, epithecio fissurinarum obscuro vel vix visibili; monospora, spora muraliformis, ellipsoidea, hyalina, long. 0,070—080, crass. 0,015—025 mm.

Ad cortices.

Species fissurinis numerosis, eximie gracilibus, thallum undique obtegentibus ab affinibus distinguenda.

96. *Graphis caesiopruinosa* (Fée) in Bullet. soc. bot. Fr. XXI. 1873. p. 30; (sub *Platygramma*); Krempelhuber in Flora 1876, pag. 447.

Ad cortices.

Sporae 1—3 in asco, fusiformi-ellipsoideae, muraliformes, primo hyalinae, dein fuscescentes, tandem obscuro-olivaceae, corrugatae et deformes, long. 0,090—0,100, crass. 0,019—021 mm. Paraphyses filares, granulis immixtis multis, itaque hymenium filare-granulosum.

97. *Arthonia adspersa* (Mont.), Krph.; *Ustalia adspersa* Mont. in Ann. d. scienc. natur. Bot. XVIII, p. 278.

Ad cortices.

98. *Opegrapha comma* Ach.

Ad cortices.

99. *Opegrapha heterocarpa* Fée Ess. p. 29; tab. VI. fig. 2.

Tabaccal, ad corticem cedri.

Sporae 6—8 nae, aciculares, incolores, long. 0,044—050, crass. 0,003—005 mm., 10—12 et ultra septatae.

Apothecia in his speciminibus Argentinis a typo tantum nonnihil majoribus diversa.

100. *Glyphis confluens* Mont. Lich. Guyanens. Cent. III. p. 81. In silvis litoralibus juxta flumen Gualguaychu, ad ramos arborum.

Sporae 8 nae, oblongo-fusiformes, 8—10-loculares loculis uniseriatis, hyalinae, long. 0,033—038, crass. 0,007—009 mm. —

101. *Chiodecton rubrocinctum* (Ehrbg.) Nyl.

Ad cortices, Rio negro inter Oran et S. Andrés, sterile.

102. *Endocarpon pusillum* (Hedwig st. crypt. II. 56) Schaer. En. p. 233.

Ad rupes.

103. *Verrucaria fetivica* Krph. in Rabenh. jun. Lichenes Mexicani, Hedwigia 1876.

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Ad cortices (Unicum!).

104. *Verrucaria (Porina) nucula* (Ach.), Nyl. Exp. syn. pyrenocarp. p. 40.

Corticola (Unicum!).

105. *Verrucaria (Pyrenula) basilica* Krph. sp. n.

Thallus ochroleucus, granulato-colliculosus, contiguus, laevis, crustam crassiusculam, determinatam, rotundatam vel oblongam (diam. circ. 2 centim.), ambitu interdum linea atrofusca cinctam in cortice efformans; apothecia verrucas thallinas subhemisphaerico-prominulas et versum medium thalli confertas, apice umbilicatas, nigro-ostiolatas sistentia, perithecia atra, integra, vertice in collum breve, ostiolum verrucae obturans, protensa circumcludentia, itaque ostiola ampliuscula verrucarum nigricantia; sporae 4—8, fusiformes aut oblongo-fusiformes, plerumque curvulae, magnae, long. 0,110—120, crass. 0,013—017 mm., hyalinae, 18—20-loculosae, loculis (sporoblastis) uniseriatis, (maturae) angulosis et in sporis omnino maturis trabeculis gracillimis inter se separatis, quod in sporis junioribus non visibile.

Ad ramos arborum prope urbem Concepion del Uruguay.

Species ex insignibus generis *Pyrenulae*, jam extus thallo suo granulato-colliculoso, determinate dilatato, valde evidens.

106. *Verrucaria (Pyrenula) pyrenuloides* (Mont.) Nyl. Exp. syn. Pyrenoc. p. 44; *Pyrenula pachycheila* Tuckerm. Gen. lich. p. 274.

Ad cortices.

Sporae 1—8nae in asco, fusiformi-ellipsoideae, long. 0,033—055, crass. 0,017—022 mm., primo hyalinae, 10 series transversas (in quavis serie 1—4 loculi) offerens, serius muraliformes, pallido-olivaceae, vetustae obscuro-olivaceae, deformes; paraphyses gracillimae, flexuosae, bene conspicuae.

107. *Verrucaria (Pyrenula) mastophora* Nyl. Syn. Lich. Nov. Caled. p. 88; Expos. Lich. Nov. Caled. p. 52; Lichenogr. Nov. Granat. 4. p. 75.

Corticola, Rio seco prope Oran, Cienega.

108. *Verrucaria (Pyrenula) vernicosa* Krph. sp. n.

Thallus pallide olivaceus, tenuissimus, opacus, inaequalitates substrati continue obducens, irregulariter dilatatus; perithecia atra, minuta, crebra, in verrucis thalli convexis,

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supra superficiem parum prominentibus, innata, ostiolo minutissimo, vix visibili, incolore aut nigricante, instructa; sporae fusiformi-ellipsoideae, olivaceae, 1-septatae, loculorum apicibus utrinque obtuse acuminatis (scilic. extremis utrinque in cuspidem brevem obtusum protractis), long. 0,035—039, crass. 0,011—014 mm., paraphyses longae, gracillimae, flexuosae.

Ad cortices.

Species jam propria sporarum forma interna a congeneribus satis distincta.

109. *Verrucaria (Pyrenula) thelocarpoides* Krph. sp. n.

Thallus albidus, tenuissimus, leviter rugulosus, indeterminatus; apothecia valde minuta, approximata, globosa vel subglobosa, sessilia, nigricantia, sed a thallo omnino tenuiter obducta, apice poro punctiformi nigricante instructa, monospora, spora grandis, oblongo-fusiformis, hyalina, muraliformis, long. 0,110—187, crass. 0,022—033 mm.; paraphyses numerosae, longae, gracillimae, flexuosae et nonnihil intricatae, optime conspicuae.

Rio seco, inter Oran et St. Andrés.

Ad cortices.

Species lepida, quoad faciem externam *Thelocarpon byssoideo* Krph. valde similis, sed apothecia majora; haec globulos minutos (vix 0,5 mm. latos), apice poro nigricante signatos sistentia, perithecio tenuissimo nigricante, a thallo leviter suffuso, intus albida.

110. *Verrucaria (Pyrenula) subducta* Nyl. Prodr. Flor. Gran. 2. p. 116.

Sporae ellipsoideae vel ovoideo-ellipsoideae, 4-loculares, obscuro-olivaceae, tandem corrugatae, deformes, long. 0,086—088, crass. 0,018—020 mm.

Similis *Verrucariae nitidae* (Schrad.) et ab hac praesertim sporis majoribus earumque forma ovoideo-ellipsoidea diversa.

Thallus in speciminibus Argentinicis lutescens.

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