niss der Torfmoose", Dorpat, 1865) als *Sphagn. cuspidatum*, γ, *speciosum* Russ. beschrieben hat, und das Herr v. Klinggräff (1872) als eigene Art, *Sph. speciosum* Klinggff., aufführt. Ich selbst brachte schon 1869 dasselbe Moos aus dem Rhöngebirge mit, vom Petersee bei Rupperts, und 1870 aus einem Erlensumpfe bei Unter-Bernhards, hatte es jedoch als eine „*forma robusta*" zu *Sphag. cuspidatum* Ehrh. gelegt. —

Lichenes Brasilienes,
collecti a D. A. Glaziou in provincia brasiliensi Rio Janeiro

auctore Doct. A. de Krempelhuber.

(Continuatio.)

197. *Lecidea lapicida* Fries L. E. ref. p. 306; Nyl. Prodr. L. Scand. p. 225; *Lecidea farrea* Fée Bullet. de la soc. bot. Franc. XX. 1873, p. 316.

Ad saxa granitica (coll. 7123.).

Sporae long. 0,012—013, crass. 0,008—009 mm. Specimina non bene evoluta.

198. *Lecidea pallido-cervina* Krph. spec. nov.; *Lecidea congregata* Fée Bullet. Soc. bot. Franc. XX, p. 316.

Thallus dilute fuscescens vel dilute cervinus, opacus, ex squamulis minutis subrotundo-difformibus, interdum margine lobatis vel crenatis, crassiusculis, substratum interrupte obtegentibus conformatus, indeterminatus; apothecia sordide atra, disco plano subrotundo, difformi, margine tenui, obtuso, flexuoso, squamulas longe superantia, dispersa, hypothecium fusconigrum; sporae 8nae, ellipsoideae, simplices, hyalinae, long. 0,011—013, crass. 0,008—009 mm.

Ad saxa granitica (coll. 7124).

Squamulae 0,6—0,8 mm. latae; apothecia diam. 0,8—1,0 mm.; thallus hydrate kalico lutescens. Hypothallus non visibilis.

Affinis certis formis *Lecideae fusco-atrae* Ach., sed notis allatis, ut videtur, satis diversa.

Diagnosis hujus speciei a Féeo l. c. data, per maximam partem falsa, etiam nomen specificum „congregata" minime videtur idoneum itaque hoc rejiciendum esse censuimus.

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199. *Lecidea contigua* Fr.

var. *flavicunda* (Ach.) Nyl. Prodr. L. Scand. p. 224; *Lecidea ochracea* Fée Bullet. Soc. bot. France, XX, 1873, p. 316.

Ad saxa granitica (coll. 5118.).

Nescimus, quibus momentis impulsus celeb. Fée l. c. hunc lichenem et *Lecid. lapicidam* Fr. (sicut et multas alias species jam longe bene cognitas) novas descripsit.

Xylographidei.

200. *Xylographa parallela* (Ach.) Fr. Nyl. Prodr. Lich. Scand. p. 250.

Corticola (coll. 5110).

Graphidei.

201. *Graphis pallida* Fée Bullet. soc. bot. Fr. XXI, p. 27. sp. n.

Thallus sordide glaucescens, maculam majorem tenuem continuam, rugulosam, ambitu determinatam efformans; apothecia elongata (long. circ. 3,0—4,0 mm.), lirellaeformia, parum prominula, crassiuscula, numerosa, thallo concoloria, intus pallida, simplicia raro furcata et ramosa, valde flexuosa, inter se approximata, fere intricata, epithecio rimiformi angusto incolore; spora 1, fusiformi-oblonga, murali-divisa, incolor vel pallido-olivacea, long. 0,060—068, crass. 0,013—015 mm.; paraphyses filares, conspicuae, crebro immixtis granulis hyalinis minutissimis.

Corticola (coll. 5534, 6298).

Habitus fissurinoides. Affinis *Graphidi frumentariae* Fée, sed lirellae longiores, graciliores, magis flexuosae intusque incolores.

202. *Graphis valvulescens* Fée Bullet. soc. bot. Fr. XXI, p. 28.

Thallus macula majore pallide fuscescente irregulariter dilatata et ambitu linea tenui atra determinata indicatus, continuus, laevis vel tenuiter rugulosus; apothecia lirellaeformia aut oblongae, crassiusculae, adnato-sessilia vel fere erumpentia, simplicia, brevia, recta vel parum flexuosa et curvula, dispersa, a thallo omnino obtecta et huic concoloria, marginibus (labiis) interdum tenuiter striatulis, epithecio rimiformi, angusto, intus excipulo nigricante angusto subtus integro; spora 1, elongato-oblonga, muralidivisa, hyalina, tandem pallido-olivacea, long. 0,060—0,068, crass. 0,013—0,015 mm. paraphyses longae, capillares, conglutinatae, flexuosae.

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Corticola (coll. 5091, 6281).

Apothecia quoad formam illis *Graphidis reniformis* Fée similia, long. circa 1,0—2,0 mm.

203. *Graphis macella* Krph. spec. nov.

Thallus albidus, tenuis, substratum (ramulos) aequaliter obducens; apothecia numerosa, conferta, lirellaeformia, brevia, simplicia, subprominula, flexuosa, raro furcata, epithecio atro rimaeformi, gracili, marginibus subpruinosis angustis thallo concoloribus, plerumque semel vel bis tenuiter striatulis; spora 1 ellipsoidea, murali-divisa, incolor, long. 0,066—068, crass. 0,017—019 mm.; paraphyses firmae rectae.

Ad ramulos Villosiae (coll. 6289. b).

Affinis *Graphidi striatulae* Nyl., sed jam sporis sat diversa.

204 *Graphis macrospora* Krph. sp. n.; *Graphis delicatula* Fée Bullet. soc. bot. Fr. XXI, p. 28 (quoad specimen Nr. 3226); *Graphis Poitaei* Fée l. c. p. 28 (quoad specimen Nr. 3380).

Thallus albidus in colorem glaucescentem vergens, maculam majorem, laevem, omnino continuam, tenuem determinatam efformans, ambitu interdum a linea gracili fuscescente cinctus; apothecia gracilia, thallo immersa, et huic concoloria, elongata, vario modo ramosa, epithecio rimaeformi angustissimo a thallo tenuiter marginato; spora 1, maxima, oblongo-ellipsoidea, eximie murali-divisa, incolor, vel dilute fuscescens, long. 0,181—0,22 mm., crass. 0,077—090 mm.; hypothecium obscuro-fuscum, paraphyses longae, capillares, bene conspicuae.

Corticola (coll. 3226, 3379, 3380).

Thallus hydrate kalico statim sanguinescit.

Affinis *Graphidi Poitaei* Fée, sed forma apotheciorum alia; jam sporis suis grandissimis a congeneribus bene distincta videtur.

205. *Graphis vernicosa* (Fée Ess. Supplem. p. 24 sub *Opegrapha*) Nyl. Prodr. L. Nov. Gran., 2, p. 76; *Graphis chlorocarpa* Fée Bullet. soc. Fr. XXI, p. 29.

Corticola (coll. 3376, 3377, 3393).

var. *hyperbolizans* Nyl. l. c.

Variant ei apothecia nonnihil striatula vel substriatula.

Corticola (coll. 2018).

var. *monospora* Nyl. l. c.

Corticola (coll. 5106. b).

Monospora, spora ellipsoidea, murali-divisa, hyalina, long. 0,090—094; crass. 0,026—030 mm.

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206. *Graphis rugulosa* (Fée sub *Opegrapha* in Ess. p. 30, tab. VII, fig. 1.; *Graphis laeviuscula* Fée Bullet. soc. bot. Fr. XXI, p. 27. p. p.

Corticola (coll. 5017. a).

207. *Graphis subserpentina* Nyl. Prodr. Lich. Nov. Gran. ed. 2, p. 75 in nota.

Corticola (coll. 5017. b).

Monospora; spora incolor, fusiformi-ellipsoidea murali-divisa, in his speciminibus Brasiliensibus long. 0,100—0,114, crass. 0,020—024 mm.

Determinatio, archetypo hujus lichenis deficiente, non omnino certa. Nam ex brevi diagnosi sola a Nylandero ad hanc speciem l. c. data haec species non omnino certe dijudicari possit.

208. *Graphis rigida* (Fée Ess. p. 29, Supplem. p. 23, tab. 35. f. 5 sub *Opegrapha*); Nyl. Prodr. L. Nov. Gran. 2., p. 75; *Graphis scaphella* Ach. Fée Bullet. soc. Fr. XXI, p. 27.

Corticola (coll. 5090).

var. *Acharii* (Fée) Nyl.; *Graphis Acharii* Fée Ess. p. 39, tab. 10. f. 4, Supplem. p. 29.

Sporae 1—8nae in thecis (ejusdem apothecii), long. 0,055—0,125 mm., crass. 0,011—025 mm. — Thecae monosporae, sporis murali-divisis, disporae et octosporae haud raro juxtapositae conspiciuntur in thalamio. Nyl. Fl. 1869, p. 124.

(coll. 1898, 2188, 5089, 5105, 5501, 5496, 7117, 7114, 6283).

var. *ochroleucodes* Nyl. in Flora 1869, p. 124.

Thallus albus tenuis. Apothecia albido—ochracee suffusa striatula, sporis 4—8 nis, long. 0,060—0,120, crass. 0,014—023 mm. (demum jodo violaceo coerulescentes. Nyl. l. c.)

Lignicola (coll. 1894).

var. *interducens* Nyl. in Flora 1869, p. 124.

Subsimilis var. *subducenti* Nyl. L. Nov. Gran. 2, p. 133, at thallo albo et sporis 1—2-nis fusiformi-oblongis, long. 0,070—0,110, crass. 0,017—033 mm. (in var. *subducente* sporae sunt ellipsoideo-oblongae, breviores). —

Corticola (coll. 1940, 6284).

var. *ramosa* Krphb.

Apothecia elongata, a thallo paene tota obtecta, subdentrice ramosa; sporae 1—3, murali-divisa, long. 0,088—0,121, crass. 0,020—024 mm.

Corticola (coll. 5079).

209. *Graphis Poitaei* Fée Ess. p. 46. tab. XI, fig. 1; *Graphis pallida* Fée Bull. soc. bot. Fr. XXI, p. 27.

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Corticola (coll. 3390).

Monospora; spora ellipsoidea, murali-divisa, incolor, long. 0,066, crass. 0,038 mm.

210. *Graphis cheilomegas* Fée sp. nov. Bullet. de la soc. bot. de France XXI, p. 28; *Graphis fodicans* Nyl. sp. n. in litt. ad Krempelh.

Thallus cinereo-virens vel albidus, plus minus rugulosus et substrati inaequalitates continue obducens, tenuis, effusus, opacus; lirellae irregulariter dispositae, dispersae vel aggregatae, simplices, radiato-ramosae, immersae, erumpentes, hiantes, epithecio rimaeformi vel irregulari, atrofusco, margine thallino crasso, disrupto, irregulari cincto; sporae 2nae in asco, ellipsoideae, incolores, murali-divisae, long. 0,068—071, crass. 0,046—048 mm.; paraphyses graciles, rectae, immixtis granulis minutissimis innumerabilibus; hypothecium fuscum vel fuscescens.

Corticola (coll. 5076, 5095, 5423, 5077, 5426).

Species apotheciis hiantibus eorumque thalamio immerso et margine thallino, hoc cingento, disrupto bene distincta.

211. *Graphis scalpturata* Ach. Syn. p. 86; Nyl. Prodr. Lich. Nov. Gran. 2, p. 79; *Graphis albidula* Fée Bullet. de la soc. bot. de Fr. XXI, p. 28. sp. n.; *Graphis aperta* Fée sp. n. l. c. p. 28; *Graphis flexuosa* Fée l. c. p. 30; *Graphis scripta* Fée l. c. p. 25 (ex errore!); *Graphis Cascarillae* Fée (ex errore!) l. c. p. 25; *Graphis lutescens* Fée l. c sp. n. p. 26; *Graphis cheilomegas* Fée l. c. p. 28.

Sporae murali-divisae.

Corticola (coll. 1966, 1967, 2176, 2179, 2182, 2763, 3382, 3383, 3375, 3385, 3381, 3384, 3386, 3448, 5104, 5494 a, 5515, 6299, 6301, 6302).

var. *supposita* Nyl. in Flora 1869, p. 123; *Graphis pachnodes* Fée (ex errore) l. c. p. 30.

Corticola (coll. 2178).

Differens a typo hypothecio (tenui) infuscato.

var. *plurifera* Nyl. l. c.; *Platygramma caecicpruinosa* Fée l. c. p. 30.

Corticola (coll. 2180. 2181.).

Sporis 4—8-nis.

var. *dissimilis* Nyl. Prodr. Lich. Nov. Gr. Supplem. p. 564; *Platygramma heteromorpha* Fée l. c. p. 30.

Corticola (coll. 3450).

212. *Graphis curta* Fée Bullet. de la soc. bot. Fr. XXI, p. 27, spec. nov.

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Sporae muraliformes sec. Féeum l. c.

Corticola (5486).

Specimen malum in nostra collectione sine sporis. Est verisimiliter forma abbreviata *Graphidis Acharii*.

213. *Graphis sophistica* Nyl. Prodr. Lich. Nov. Gran. 2. p. 74.

Corticola (coll. 1900, 5502; 3378. b).

Sporae in spec. Nr. 5502 oblongae vel ellipsoideae, muralidivisae, incolores, long. 0,040—045, crass. 0,013—015; sporae in spec. Nr. 3378 b. 1—3 in asco, oblongae, hyalinae, murali-divisae, long. 0,032—033, crass.0,016—017 mm.

214. *Graphis inturgescens* Krph. spec. nov.

Thallus albido-cinerascens, opacus, crustam tenuem continuam, substratum — ut videtur — late obducentem, indeterminatam efformans; apothecia (vel lirellae) numerosa, thallo concoloria, approximata, prominula, turgida, simplicia, linearia, flexuosa, intus perithecio atro, supra thallo fere omnino obtecto, et epithecio rimiformi, rima nigricante aut incolore clausa instructa; sporae 1—2 nae, fusiformi oblongae, hyalinae, multiloculares, plerumque 20-loculamentosa, 4 loculis in quovis loculamento transversim oblongo (vel serie transversa) exceptis extimis, long. 0,088—0,110, crass. 0,020—0,026 mm.; paraphyses longae, perspicuae, firmae.

Color thalli hydrate kalico non mutatur.

Ad saxa granitica (coll. 6286).

Persimilis *Graphidi streblocarpae* var. *Canariensi* (Mass:) Krph. tantumque statione et structura nonnihil alia sporarum et reactione chemica ab hac differens.

215. *Graphis calyptica* Krph. sp. n.

Thallus albidus, superficie farinacea, crassiusculus, submembranaceus, dilatatus, continuus, ambitu determinato; apothecia thallo concoloria, adpressa, rotundata vel subrotundata (diam. circ. 1,3 mm.), disco (epithecio) plano farinoso, a margine concolore tenui vel obsoleto cincto, intus pallida; spora 1, fusiformi-ellipsoidea, murali-divisa, maxima, long. 0,192—0,200, crass. 0,044—048 mm., pallide olivacea.

Corticola (coll. 3418).

Species forsan affinis *Graphidi platyleucae* Nyl., nobis ignotae; et spora maxima colorata, apotheciisque discoideis adpressis, farinoso-suffusis necnon thallo submembranaceo (fere cretaceo) determinato a congeneribus valde distincta.

216. *Graphis frumentaria* Fée Ess. p. 45, tab. X, fig. 1.

Corticola (coll. 1892? sterilis).

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Sporae 1—2-nae, murali-divisae.

217. *Graphis dealbata* Nyl. in Flora 1869, p. 123; sp. n. *Graphis venusta* Fée Bullet. soc. bot. Fr. XXI, p. 28; sp. n. *Graphis pallida* Fée ibid. p. 27; *Graphis congesta* Fée ibid. p. 24.

Similis *Graphidi componenti* Nyl. L. Nov. Gran., p. 132, sed thallo tenui albo subopaco et hydrate kalico flavescente. Forsan sola subspecies. Thecae monosporae, sporae incolores oblongae murali-divisae, long. 0,070—095 mm., crass. 0,020—032 mm. (jodo coerulescentes). Hypothecium nigricans aut alibi subincolor. Nyl. l. c.

Corticola (coll. 1899, 3390, 3397).

218. *Graphis cometia* Fée Ess. Supplem. p. 35. tab. XXXV, fig. 9.; *Graphis Poitaei* Fée (ex errore!) Bullet. soc. bot. Fr. XXI, p. 28.

Corticola (coll. 2160, 6282, 5014).

Sporae quoad magnitudinem et numerum in asco nonnihil variabiles. In specime Nr. 5014 sporae 1—3, fusiformi-ellipsoideae, murali-divisae, incolores, long. 0,050—054, crass. 0,015 mm.; paraphyses gracillimae, conglutinatae, interdum intricatae; apothecia intus carneo-pallida; hypothecium pallido-carnosum; loculi sporarum illis in sporis murali-divisis plerumque visis nonnihil majores. In specimine Lindigiano Nr. 2889 sporae 4-nae, long. 0,075—0,100, crass. 0,018— 021 mm.

D. Féeus specimina sub numeris 2160, 6282 et 5014 in collectione Glaziouana (liberum a semetipso procreatum negans) habuit pro *Graphide Poitaei* Fée, sed certe erroneo modo; nam *Graphis Poitaei* Fée vera, ex archetypis pluribus nobis satis cognita, minime congruit in specimina Nr. 6282 et 5014, ad haec autem specimina pertinent et descriptio iconque *Graphidis cometiae* Fée ab auctore in opere Essai etc. datae, necnon specimina a Nylandero in collectione Lindigiana sub nomine *Graphidis cometiae* Fée et sub Nr. 2889 divulgata.

219. *Graphis reniformis* Fée Ess. p. 46, XI, f. 2; *Graphis venusta* Fée Bullet. soc. bot. Fr. XXI, p. 28.

Thecae monosporae, sporis incoloribus, murali-divisis. Hypothecium nigricans aut modo infra sat tenuiter obscuratum.

(coll. 1939, 5425).

(Continuatnr).

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