

Peplis L., *Ameletia* Dec., *Pleurophora* Don, *Cuphea* Jaq., *Lythrum* L., *Adenaria* H. B. & Kth., *Grislea* Loeffl., *Lawsonia* L., *Physocalymna* L., *Lagerstroemia* Dec. und *Diplosodon* Pohl, und fand nur in sehr wenigen Fällen durchsichtige Punkte in den Blättern. Einige *Ammannia*-Arten, so namentlich *Ammannia vesicaria* Roxb., sind pellucid punctirt von grossen sehr regelmässig begrenzten Atemhöhlen.

In einem andern bei dieser Familie einzig dastehenden Falle sind die durchsichtigen Punkte bedingt durch Harzlücken mit deutlichem einschichtigem Epithel und in Alkohol leicht lösliche Inhalt: *Cuphea anagalloides* St. Hil.¹⁾ bildet diese Ausnahme unter den *Lythrarieae*.

Epidermiszellen mit verschleimten Innenmembranen scheinen, wie ich nebenbei beobachtete, bei den *Lythrarieae* ziemlich verbreitet zu sein. Herr Professor Dr. Radlkofler gibt in seiner Zusammenstellung der beobachteten Fälle die Verschleimung für *Lythrum* und *Peplis* an; ich kann diesen Gattungen noch 3 hinzufügen: *Ammannia (glauca* Wall.), *Cuphea (anagalloides* St. Hil.), *Diplosodon (ovatus* Pohl). Die verschleimten Epidermiszellen treten auf beiden Blattseiten auf, bedingen aber hier niemals durchsichtige Punkte.

(Fortsetzung folgt.)

Lichenologische Beiträge von Dr. J. Müller.

XV.

(Fortsetzung.)

456. *Phaeographis* (s. *Melanobasis*) *elliptica* Müll. Arg. Thallus olivaceus, effusus, laevigatus; lirellae $\frac{3}{10}$ mm. latae, $1\frac{1}{2}$ — $2\frac{1}{2}$ -plo longiores quam latae, brevius longiusve ellipticae, utrinque obtusae v. altero latere v. utrinque acutiusculae, innato-sessiles, tenuiter et subprominenter nigro-marginatae, extus leviter thalino-marginatae et paullo olivaceo-velatae, discus planus et niger, opacus; peritheciun lateraliter tenue, sub lamina distincte crassius, undique nigro-fuscum; sporae in ascis octonae, fuscae,

¹⁾ Die Zugehörigkeit des mir vorgelegenen Exemplares zu den *Lythrarieae* wurde durch Herrn Dr. Schultes gütigst sichergestellt.

18—24 μ longae, 6—7 μ latae, 6—8 loculares. — Extus fere omnino *Ph. Patellulam* simulat, at lirellae evolutae paullo longiores, extus minus thallino-vestitae et sporae dein omnino aliae, 3-plo breviores, ambitu latiores et tantum 6—8 loculares (nec 12—20-locales). — In cortice officinali Chineae (ex hb. Hampeano).

457. *Phaeographis* (s. *Melanobasis*) *imparilis*; *Graphis imparilis* Krplh. Lich. Beccar. in Borneo lect. p. 29. — Cl. Krempelhuber Lichenem sterilem tantum vidit, sc. apotheciis asporis tantum ornatum. Ex meo specimine species omnino ad *Phaeographidis* sectionem *Melanobasin* est locanda. Peritheciun lateraliter tenuer, sub lamina valde incrassatum; sporae fuscae, 33 μ longae, 8 μ latae, 9-locales. — Affinis est *Ph. Patellulae*, praesertim *Ph. ellipticae*, sed lirellae non aut vix emergentes et thallus albidus. — In insula Borneo (Sarawak): D. Beccari n. 2.

458. *Phaeographidis* sect. *Platygramma* Müll. Arg.; genus *Platygramma* Eschw. Metamorph. Flecht. p. 332 pr. p., et genus *Hymenodecton* Leight. Monogr. of Brit. Graph. p. 42 t. 7 fig. 23. — Peritheciun fusco-nigrum, completum, lateraliter et sub lamina tenuer; discus subniger, planus. — Praeter alias species hujus loci sunt:

Ph. (sect. *Platygramma*) *dendritica*; *Graphis dendritica* Ach. Meth. p. 31 t. 1 fig. 10; *Hymenodecton dendriticum* Leight. Monogr. of Brit. Graph. p. 43 t. 7 fig. 23. — Species vulgatissima.

Ph. (s. *Platygramma*) *subinusta*; *Graphis subinusta* Leight. Lich. Ceyl. p. 177. Peritheciun lateraliter tenuer, nigro-fuscum, sub lamina saepe duplo crassius v. saltem distincte crassius v. raro non crassius et species tum fere omnino cum *Phaeographide dendritica* confluens, at peritheciun semper tamen quam in hac specie latius est et magis nigricans. — In Ceylonia (specim. Thwait.).

Ph. (s. *Platygramma*) *aulaxerpeta*; *Platygrapha aulaxerpeta* Leight. Lich. Ceyl. p. 179 n. 155 fig. 23. — Gracilem *Phaeographinam sculpturalam* aut valde elongatam *Phaeographidem dendriticam* simulat, at sporae 6-locales sunt. — In Ceylonia (specim. Thwait.).

459. *Phaeographidis* sect. *Hemithecium* Müll. Arg. Peritheciun fusco-nigrum, laterale, sub lamina deficiens; discus subniger, planus. — Hic pertinent:

Phaeographis (s. *Hemithecium*) *medusiformis*; *Graphis medusiformis* Krplh. Lich. Glaz. p. 59. — In Brasilia (specim. Glaz.).

Phaeographis (s. *Hemilheciun*) *inusta*; *Graphis inusta* Ach. Syn. p. 85. — Species polymorpha et latissime distributa.

Phaeographis (s. *Hemilheciun*) *subdividens*; *Graphis subdividens* Leight. Lich. Ceyl. pag. 177. — In Ceylonia (specim. Twait.).

Phaeographis (s. *Hemilheciun*) *lobata*; *Leiogramma lobatum* Eschw. Lich. Bras. p. 100; *Graphis patellula* Krplh. Lich. Glaz. p. 59 (non Fée); *Graphis punctiformis* Nyl. Lich. Husn. p. 20 (exclus. syn. Eschw.). — In Brasilia prope Rio de Janeiro (Glaziou n. 5468, 5476), in Guyana gallica (Leprieur n. 562), in Guadeloupe (Husn. n. 484), in Cuba (Mann, et C. Wright Graph. Cub. n. 159), et demum in insula Java (hb. lugd. bat.).

Phaeographis (s. *Hemilheciun*) *punctiformis*; *Leiogramma punctiforme* Eschw. Bras. p. 101, Icon. sel. t. 7 fig. 4. — Pulchre e Cuba (C. Wright Graph. Cub. n. 167) et in cortice officinali Quassiae (ex hb. Hamp.).

Phaeographis (s. *Hemilheciun*) *pezizoidea*; *Graphis pezizoidea* Ach. Syn. p. 86. — Pulchre in C. Wrightii Graph. Cub. n. 199 a.

460. *Phaeographis* (s. *Hemilheciun*) *Lindigiana* Müll. Arg.; *Graphidis pezizoideae* forma Nyl. in Prodr. Nov. Gran. p. 78. Thallus pallide olivaceo-rufescens, effusus, laevis, lirellae $\frac{2}{5}$ mm. latae, primum patelliformes, dein elongatae et $\frac{1}{2}$ —1— $\frac{1}{2}$ mm. longae, simplices, rectae, aut incurvae, paullo emergentes, extus margine thallino haud secedente nec laminam excedente tectae; margo proprius tenuis, parum excedens, basin versus (in sectione) evanescens et sub lamina undique deficiens; discus planus, niger, ab origine nudus; epithecium fuscum; sporae fuscidulae, 17—19 μ longae, 5—6 μ latae, lenticulari-4-loculares. — Primo intuitu *Ph. dendriticam* simulat, sed perithecia structura alia et sporae simpliciores. — A *Ph. pezizoidea* dein lirellis evolutis elongatis et aliter marginatis differt. — Crescit in Nova Granata prope Villeta (Lindig n. 2728).

461. *Phaeographis* (s. *Hemilheciun*) *bicolor* Müll. Arg. Thallus fuscescenti-olivaceus, tenuis, laevis, linea nigra cinctus; lirellae ex orbiculari elongatae, subrectae v. curvulae, utrinque obtusae, simplices, $\frac{1}{2}$ — $\frac{2}{3}$ mm. v. paullo ultra latae, modice emergentes, margine thallino albido et proprio nigro subtenui sub lamina deficiente cinctae, discus planus, niger et nudus; hypothecium flavescentia; asci 8-spori; sporae fuscae, subdigitiformes, 27—34 μ longae, 7—9 μ latae, 8—10-loculares. — Extus prima fronte *Phaeogr. melanostalazantem* simulat, sed margo thallinus magis albus et peritheciun basi omnino aliud. Etiam *Opegrapham* con-

glomeratum Fée Ess. t. 13 fig. 1 habitu refert, excepto colore thalli. Ab affini *Ph. inusta* praesertim lirellis amplioribus et sporis magis divisis differt. — In insula Java (hb. lugd. bat.).

462. *Phaeographidis* sect. *Phaeodiscus* Müll. Arg. Peritheciun fusconigrum v. fuscum, laterale, sub hypothecio pallido deficiens, extus non margine thallino emergente tectum; discus planus, late apertus, subfuscus, v. saltem madefactus fuscus, non autem ruber aut sanguineus. Sporae 4-loculares. — Hujus loci est:

Phaeospora (s. *Phaeodiscus*) *Cascarillae*; *Graphis Cascarillae* Fée Ess. p. 34 t. 8. fig. 5—6 et Suppl. p. 27. — Lirellae siccae subnigrae, madefactae statim fuscae, peritheciun laterale tenue; sporae 14—18 μ longae, 6—6 $\frac{1}{2}$, μ latae, 4-loculares, late fusiformes, utrinque acutatae, fuscescentes. — Crescit in *Crotonis Cascarillae* cortice officinali (ex hb. Hamp.).

463. *Phaeographidis* sect. *Coelogramma* Müll. Arg. Peritheciun fuscum, subdebile, basi attenuatum v. subnullum, extus margine thallino emergente elato-obvallatum; discus nigricans aut fuscus, supra in sectione semilunari-concavus, demum latiusculus. — Lirellae fissurinae, quam in sectionibus praecedentibus angustiores, juniores margine thallino magis clausae et discus plus minusve concavus.

464. *Phaeographidis* (s. *Coelogramma*) *concava* Müll. Arg. Thallus olivaceo-fuscescens v. olivaceo-pallidus, laevis, nigro-limitatus; lirellae $\frac{1}{3}$ mm. latae, 2—4 $\frac{1}{2}$ mm. longae, simplices v. saepius plus minusve astroideo-ramosae; peritheciun emergens, tenue, fuscum, basi valde tenue, apice incrassatum extusque margine thallino emergente tota altitudine tectum; discus fusco-nigricans, primum marginibus arcte conniventibus subtectus, dein latior et magis apertus, concavus, demum facile secedens; epithecium fuscum; lamina hyalina; sporae in ascis octonae, fuscescentes, 23—30 μ longae, 10 μ latae, 6-loculares. — In insula Java (hb. lugd. bat.).

465. *Phaeographidis* sect. *Pyrrhographa*; genus *Pyrographa* Mass. Esam. comp. p. 28. Peritheciun tenue, fuscum, sub lamina purpurascente deficiens, extus thallino-tectum; discus demum late apertus, plano-concavus et intense subsanguineo-tinctus. — Hujus loci est:

Phaeographis (s. *Pyrrhographa*) *haematites*; *Graphis haematites* Fée Ess. p. 45 t. 12 fig. 1; *Ustalia flammula* Eschw. Brasil. p. 107. — In America merid. variis locis et in Florida.

466. *Phaeographidis* sect. *Pelioloma* Müll. Arg. Peritheciū tenuē, pallidū, in sectione non fuscum nec subnigrum, sub lamīna hyalīna deficiens, extus crasse thallino-marginatum; discus pallidus (subvirens), demum late apertus, planus. — Hic pertinet:

Phaeographis (s. *Pelioloma*) *schizoloma*; *Graphis schizoloma* Müll. Arg. L. B. n. 142. Sporae bene evolutae sunt pallide fuscae. — In Brasilia prope Apiah: Puiggari.

467. *Graphinae* sect. *Solenographina* Müll. Arg. Peritheciū nigrum, integrum, non longitrussum sulcatum; discus perangustus, fusco-niger. — Characteres ut in *Graphidis* sect. *Solenographa*.

468. *Graphina* (s. *Solenographina*) *Ruiziana* Müll. Arg. L. B. obs. ad n. 138. v. *gracilior* Müll. Arg. Lirellae $\frac{1}{2}$ —2 mm. longae, $\frac{1}{6}$ mm. latae, basi subdistincte thallino-marginatae. — Reliqua bene cum forma normali convenient, quae lirellis gaudet minus oblongatis et paullo crassioribus. — In insula Java (hb. lugd. bat.).

469. *Graphinae* sect. *Aulacographina* Müll. Arg. Lirellae ut in *Graphidis* sectione *Aulacographa*. — Hic pertinet praeter alias:

Graphina (s. *Aulacographina*) *fisso-furcata*; *Graphis fisso-furcata* Leight. Lich. Ceyl. n. 148 (descriptio l. c. ad lirellas juniores acuminatas facta est, et sporae non solum geminatae, sed 2—6-nae in ascis occurruunt, $54-70 \mu$ longae et $17-25 \mu$ latae sunt). — In Ceylonia (specim. Thwait.) et etiam in Insula Java ab oculatissimo Junghuhn lecta fuit.

470. *Graphinae* sect. *Thalloloma*; genus *Thalloloma* Trev. Caratt. di 12 nov. gen. p. 9 (1853); Massal. Esam. compar. p. 36. Peritheciū margo proprius pallidus, fuscescens, rubens v. etiam hyalinus et a marginante thallo vix nisi structura spissiore recognoscendus, non autem vere deficiens (a cl. Trev. et Mass. praetervisus), lateraliter a thallo tectus; discus demum latus, subplanus, coloratus aut pallidus, nudus, non crasse velatus. — Praeter alias hujus loci sunt:

Graphina (s. *Thalloloma*) *anguina*; *Ustalia anguina* Montg. Cent. III. n. 79, Syllog. p. 352; *Thalloloma anguinum* Trev. l. c. — In Guyana gallica: Leprieur (e specim. Lepr. & Montgn.).

Graphina (s. *Thalloloma*) *socotrina*; *Diorygma socotrinum* Müll. Arg. Diagnos. Lich. socotr. p. 12. — In insula Socotra (Prof. Balfour).

Graphina (s. *Thalloloma*) *Boschiana*; *Ustalia Junghuhniiana* Montg. et v. d. Bosch in Montg. Syll. p. 352 et Lich. Jav. p. 51 (non

eorum *Graphis Junghuhnii* l. c. 347 et 45, quae nunc *Graphina Junghuhnii* Müll. Arg.). — In insula Java (specim. Jungh.).

Graphina (s. *Thalloloma*) *haemographa* (Nyl.) Müll. Arg. L. B. n. 155. — In Nova Granata (Lindig n. 878) et in Brasilia prope Apiahy (Puiggari n. 241, 323).

471. *Graphina* (s. *Thalloloma*) *rubens* Müll. Arg. Thallus mediocre, margine subeffusus, e cinerascenti aurantiaco-rubens, laevis; apothecia leviter emergentia, linearia, simplicia v. pauciramea, recta aut curvata flexuosaque, thallo tecta, margines thallini obtusi, tenues, proprii peritheciū incompletum tenuē fuscescens, tota altitudine laminae evolutum, basi deficiens formantes; lamina altior quam lata, demum disco pallide fusco latiuscule aperta, hyalina; asci 8-spori; sporae hyalinæ, 25—38 μ longæ, 13 μ latae, oblongo-ellipsoideæ, circ. 10-septatae, loculi longitrorum 2—4-locellati. — Juxta *Ustuliam pyrrhocroam* et *U. Junghuhnianam* Auct. locanda est. Nucleus a latere compressus est, at lamina apice in sectione demum plana et parietibus peritheciī multo latior. — In insula Java (hb. lugd. bat.).

472. *Graphinae* sect. *Platygraphina* Müll. Arg. Apothecia et discus crasse albido-thallino vestita, peritheciū fuscum v. pallidius v. fere indistinctum basi completum, vulgo undique tenuē, discus late planus, pallidus.

473. *Graphina* (s. *Platygraphina*) *hololeuca*; *Graphis hololeuca* Montg. Syllog. p. 346, Montg. et v. d. Bosch Lich. Jav. p. 47. — Haec species ad specimina chilensis imperfecta (ergo incerta), et javanica *Junghuhniana* condita, a cl. Nyl. in Enum. Lich. Husn. p. 21 infauste ad *Graphidem virgineam* relata fuit, a qua bene differt lirellis simul latioribus et brevioribus, i. e. ambitu multo latioribus et sporis duplo majoribus, 90—160 μ (150—200 μ ex cl. Montg.) longis diversa est. — In insula Java (Jungh.).

Graphina (s. *Platygraphina*) *particeps*; *Graphis particeps* Nyl. Lich. Andam. p. 18, cum parasitula *Melaspilea microspilota* Nyl. — Etiam in ins. Java: Jungh.

Graphina (s. *Platygraphina*) *Junghuhnii*; *Graphis Junghuhnii* Montg. et v. d. Bosch in Montg. Syllog. p. 347 et Lich. Javan. p. 45. — In insula Java: Jungh.

(Schluss folgt.)

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