

ACTA SOCIETATIS SCIENTIARUM FENNICÆ.

TOM. XXVI. N° 10.

---

# LICHENES CEYLONENSES

ET

ADDITAMENTUM AD LICHENES JAPONIÆ.

SCRIPSIT

W. NYLANDER.

OPUS POSTHUMUM.

---

(SOCIETATI EXHIBITUM D. 18 SEPTEMBRIS 1899.)

---



HELSINGFORSIÆ,

EX OFFICINA TYPOGRAPHICA SOCIETATIS LITTERARIE FENNICÆ,  
MCM.

## Lichenes Ceylonenses.

Restat adhuc, post alia loca Expeditionis memorabilis *Vega* nave duce illustrissimi Nordenskiöld perductæ et quorum Lichenes a clarissimo E. Almquist lectos singulatim exposui, ut hic perveniamus ad Ceylon, ubi similiter ille meritissime collectionem lichenologicam cœmulavit nunc sua vice paginis seqventibus exponendam.

Sed solum partes paucas amplissimæ insulæ explorare ei licuit inter dies 15—22 decembris mensis 1879, nempe sic:

*Point de Galle* nonnihil investigatum fuit. Saxa ibi maritima gneissacea.

Inde excursio facta ad maxime in altitudinem editas positiones montium hujus insulæ.

Perquisita tum loca seqventia fuerunt:

*Peradenia*, prope Kandu, hortus botanicus, altitudine 1600 pedum.

*Pedrotallegalle* altitudine 8300 pedum, cacumen ceylonicum editissimum.

*Nevrelia* basi hujus cacuminis, altitudine 6400 pedum.

*Rampodde* in eadem regione montana, altitudine 3400 pedum, sub duobus diebus exploratur. Ubique granitum et gneissum.

### Fam. I — Collemacei.

#### Trib. 1 — Collemei.

1. *Leptogium diaphanum* Ach., Nyl. *Syn.* p. 125. — Super ramulos in Pedrotallegalle, altit. 8000 pedum.

2. *Leptogium pichneum* Ach. *Syn.* p. 343. *L. pichneides* Nyl. *Japon.* p. 15. Thallus granulis isidiellis adspersus. — Rampodde, corticola, sterile.

Non vere differt *cyanescens* Ach. *Syn.* p. 326, etiam in Gallia, Hibernia, Norvegia, Finlandia obvium.

3. *Stephanophoron revertens* Nyl. Thallus plumbeo-cinerascens adpressus, varie divisus, laciniato-lobatus, tenuiter longitrorsum striatello-rugulosus; apothecia rufa mediocria (latit. 1—2 millim.), margine thallino rugoso cincta; sporæ ellipsoideæ simplices long. 0.016—17, crass. 0.010 millim. Iodo gelatina hymenialis cœrulescens (dein thecæ obscuratae). — Affine seqventi. — Peradenia, corticola.

4. *Stephanophoron cyanizum* Nyl. *Challeng. exped.* p. 227 (1877). *Leptogium cyanescens* Nyl. *Syn.* p. 131 (nomen mutandum ob „cyanescens“ Ach. *Syn.* p. 326). Simile fere priori, sed thallus plumbeo-cœrulescens et subtiliter furfuraceo-isidiellus. Apothecia subsimilia, sporæ vero nonnihil majores. — Cum priore, ad Peradenia.

Simile habeo a Carroll lectum in Hibernia, Killarney 1869 in Eagle's nest. Accedit ad *Leptogium Brebissonii* Del., quod colore ut in *L. tremelloide* Ach., thallo subitus cinerascente tenuissime vel obsolete puberulo, sterile lectum in sylva Briuebea olim a Delise. Thallus parallele striatulo-rugulosus, inde stephanophoroides.

Nomen *Stephanophoron* hic acceptum ut magis euphonicum quam *Stephanophorus* Flot. Jam El. Fries im *L. E.* p. 404 (*Sphaerophoron*) monet: „Alii *Sphaerophorus* scribunt, sed hæc sunt minutæ, quas eqvidem in syn. non curo“. Elegantia res primaria est scientiæ.

5. *Collemopsis commiscens* Nyl. Thallus fuscus tenuis furfuraceus diffractus; apothecia fusca homodiella (latit. circiter 0.2 millim.); sporæ globosæ vel subglobosæ, diam. 0.008—0.011 millim., paraphyses graciles. Iodo gelatina hymenialis vinose rubescens. Thallus texturæ homodioideæ. — Pedrotallegalle, saxicola.

## Fam. II. — Lichenacei.

### Series I. — Epiconiodei.

#### Trib. 2. — Caliciei.

1. *Calicium quercinum* Ach., Nyl. *L. P.* 14, *Syn.* p. 154, t. 5, f. 24. Sporæ fuscæ 1-septatæ, long. 0.008—0.010, crass. 0.0045 millim. — Pedrotallegalle, super corticem et lignum vetustum.

**Trib. 3. — Sphærophorei.**

1. *Sphærophoron compressum* Ach., Nyl. *Syn.* p. 170, t. 5, f. 47. — Pedrotallegalle, altit. 8000 pedum, super corticem arborum.

**Series II. — Cladodei.****Trib. 4. — Bæomycetei.**

1. *Bæomyces sorediifer* Nyl. Similis *Bæomyceti subsquamuloso* Nyl. in *Flora* 1877, p. 473, sed sorediosus, quare forsitan specie sit distinguendus. Thallus K flavens, sorediis præsertim tum tinctis. — Pedrotallegalle, saxicola. Rampodde, terrestris.

**Trib. 5. — Stereocauli.**

1. *Stereocaulon condensatum* Hffm., Nyl. *Syn.* p. 249, t. 7, f. 31. Sporæ bacillari-aciculares 3-septatae, long. 0.034—50, crass. 0.003 millim. — Rampodde, super saxa late effusum.

\* *St. condyloideum* Ach., Nyl. l. c. p. 251, magis evolutum podetii nudis altit. fere 15 millimetrorum. Thallus granulatus; sporæ fusiformi-aciculares 3-septatae, long. 0.032—38, crass. 0.0035 millim. — In monte Pedrotallegalle, super terram subulosam et lapillos.

**Trib. 6. — Cladoniei.**

1. *Cladonia ochrochlora* Flk. *Comment.* p. 75, „podetii dimidia fere parte inferiore glabris, superiore pulverulentis“. — Pedrotallegalle, super trun- cos putridos et terram.

2. *Cladonia botrytes* (Hag.) Hffm. var *exsoluta* Nyl. Podetia altit. 10—12 millim. pulvereo-obducta vel subnuda, K —. Sporæ long. 0.010—11, crass. 0.0030—35 millim. Iodo gelatina hymenialis cœrulescens. — Rampodde, super lignum putridum.

3. *Cladonia corymbosa* (Ach.) Nyl. *Japon.* p. 20, *Paris* p. 30. — Pedrotallegalle, super terram.

4. *Cladonia squamosa* Hffm., Nyl. *Syn.* p. 209, t. 6, f. 29, *Scand.* p. 57. — Rampodde.

6. *Cladonia carcata* Ach., Nyl. *Scandin.* p. 62, in Cromb. *Brit. Lich.*  
 p. 171. Thallus K +. — Pedrotallegalle, super terram.

Series III. — **Ramalodei.**

Trib. 7. — **Ramalinei.**

1. *Ramalina farinacea* (L.). — Peradenia.

Series IV. — **Parmeliodei.**

Trib. 8. — **Usneei.**

1. *Usnea plicata* L. — Arboricola in Pedrotallegalle, altit. 8000 pedum.

Trib. 9. — **Parmeliei.**

1. *Parmelia subaurulenta* Nyl. in *Flora* 1885, p. 606, *Japon.* p. 25. — Rampodde, corticola.

2. *Parmelia perisidians* Nyl. Subsimilis *Parmeliae subaurulenta*, sed thallus conferte isidiophorus. etiam apothecia isidiose marginata. Thallus intus leviter flavescens, K extus intusque flavens. Sporæ subglobulosæ diam. 0.007—9 millim. Iodo gelatina hymenialis cœrulescens. — Rampodde, altit. 3400 pedum, corticola.

3. *Parmelia lœvigata* (Sm.) Nyl. *Japon.* p. 27. Thallus K ±, K (Ca Cl) +. — Pedrotallegalle, corticola.

4. *Parmelia denegans* Nyl. Subsimilis *Parmeliae lœvigatae*, sed thallus K = et addita Ca Cl =. Sporæ subglobosæ diam. 0.008—9, crass. 0.007 millim. — Rampodde, corticola.

5. *Parmelia tinctorum* Despr., Nyl. *Obs. Pyren. or. n.* p. 40, *Japon.* p. 26. Thallus lœvis pro parte isidiophorus; medulla Ca Cl eximie +. — Rampodde, corticola, sterilis. Peradenia.

Optimam ad Porto in Lusitania eam legit I. Newton. (male relata fuit ad *Parmeliam olivetorum* Ach., a qua jam distinguitur isidio, etiam in receptaculo apotheciorum præsente, et thallus non superficialiter albo-punctatus).

6. *Parmelia Rampoddensis* Nyl. Similis fere *Parmelia olivetorum* Ach., at reactione K (Ca Cl) flavente, thallus sine punctulis innatis albis et ciliis

nigris marginalibus munitus sparsis. Soredia in marginibus loborum frequentia et receptacula apotheciorum valde sorediosa. Apothecia sine sporis. Spermogonia nulla rite evoluta visa. Medulla non erythrinica. — Rampodde, corticola.

7. *Parmelia perforata* Ach., Nyl. *Syn.* p. 377, *Cromb. Br. Lich.* p. 235. Thallus sorediifer, medulla e flavo ferrugineo-sanguinea. Sporæ ellipsoideæ, long. 0.013—15, crass. 0.007—8 millim.; spermatio tenuiter bacillaria, long. 0.010—11, crass. 0.0005 millim. — Pedrotallegalle.

Observetur, *Parmeliam cetratam* Ach. *Syn.* p. 198, non esse nisi varietatem thallo magis diviso ut indicavi in mea *Syn.* Ambabus sporæ long. 0.012—20, crass. 0.007—0.011 millim. et spermatio long. 0.007—0.014, crass. 0.0005 millim.

A præstantissimo Glaziou e Brasilia obtinui n:o 1839 *P. perforata* apotheciis saepissime non perforatis et thalamio saepe in vetustis a larvis verisimiliter partim depasto, et simul offerente spermogonia in hypothecio ita denuo data frequentia feraciaque spermatiis long. 0.010—12, crass. 0.0005 millim. in cicatricibus illis apotheciorum. Sporæ in eadem long. 0.012—16, crass. 0.010—11 millim. Dicatur \* *P. imperforata*. — Ibidem (coll. Glaziou n:o 1843) normalis *P. perforata* sporis long. 0.011—13, crass. 0.008—9 millim.

8. *Parmelia relicina* Fr. Nyl. *Syn.* p. 386. Thallus K extus intusque —. — Rampodde, corticola.

9. *Parmelia Kamtschadalensis* Ach., Eschw., Nyl. *Syn.* p. 387. Thallus K + flavescens, medulla e flavo ferruginascens. — Rampodde et Pedrotallegalle.

10. *Hypogymnia enteromorpha* Ach., Nyl. *Syn.* p. 401 (sub *P. physode*). — Pedrotallegalle, cum *P. Kamtschadali*.

11). *Hologymnia subflabellans* Nyl. Thallus pallidus membranaceus subflabellato-lobatus (latit. 6—11 millim.), utrinque concolor (vel basi infra infuscata), laevis, apicibus loborum albo-sorediatis, medulla et sorediis Ca Cl + (erythrinosis). — Peradenia, ramulicola.

Lichen singularis forsitan Evernia, sed non rite definiendus, apotheciis et spermogoniis deficientibus in speciminiibus visis.

#### Series IV. — Phylloidei.

##### Trib. 10. — Stictei.

1. *Sticta punctulata* Nyl. *Syn.* p. 364. In Ceylon, Java et Philippinis obvia. Similis *Stictinæ subpunctulatae*, ita ut Knight eas ambas in Ceylonia N:o 10.

colligens immixtas in eodem cæspite intricatas eas sumsit pro una eademque specie partim gonidiis et partim gonimiis munita.

2. *Stictina subpunctulata* Nyl. ad Knight et in Leight. *Ceyl.* p. 164. Similis extus *Stictæ punctulatæ* Nyl., sed *Stictina*. Apothecia margine rugoso. Sporæ luteo-fuscescentes 1—3-septatae, long. 0.030—40, crass. 0.009—0.012 millim. — Pedrotallegalle, altit. 8000 pedum.

3. *Stictina Peruviana* (Del.) Nyl. *Syn.* p. 345. — Pedrotallegalle, altit. 8000 ped., corticola sterilis.

4. *Stictina argyracea* Bor. Nyl. *Syn.* p. 331. — Rampodde, corticola. — Var. *Thouarsii* Del., Nyl. *Syn.* p. 335. Parum differt ab *argyracea*. — Pedrotallegalle, sterilis<sup>1)</sup>.

5. *Stictina Boschiana* (Mnt.) var. *lobata* (Nyl. *Syn.* p. 348). Thallus lobatus stipitatus. Sporæ 1—3-septatae, long. 0.026—56, crass. 0.009—0.011 millim. — Pedrotallegalle, corticola.

6. *Stictina crocata* Ach., Nyl. *Syn.* p. 338. — Ibidem, sterilis.

7. *Lobarina retigera* (Bor.) Nyl. *Guineens.* p. 10, *Syn.* p. 351. — Ibidem, sterilis.

### Trib. 11. — *Physciei.*

1. *Physcia aipolia* (Ach.) Nyl. in *Flora* 1870, p. 38, *Paris* p. 41. Thallus K extus et intus flavens. Sporæ long. 0.021—24, crass. 0.011—12 millim. — Rampodde, super ramulos.

\* *Ph. persoredians* Nyl. Thallus pro magna parte sorediose exasperatus. — Ibidem, altit. 3400 pedum, corticola sterilis.

2. *Physcia speciosa* (Wulf.) Fr., Nyl. in *Flora* 1869, p. 322. Thallus extus et intus K flavens. Apothecia rufescens, receptaculo crenato. Sporæ long. 0.026—30, crass. 0.014—15 millim. — Cum priore, corticola.

Variat margo apotheciorum radiato-fimbriatus. Cilia thalli vel fibrillæ pallido-albida aut nigricantia. — Peradenia, corticola.

<sup>1)</sup> Memoretur hic *Stictina Berteroana* (Mnt. *Syll.* p. 327 sub *Sticta*) Nyl. in Stzb. *Stict.* p. 128. Tangens *Stictinam Hookeri* (Bab.) Nyl. *Syn.* p. 336, thallo magis rugoso K —, medulla e flavo dein dilute ferruginascente. Color thalli pallido-glaucens. Thallus corrugatus et scrobiculato-inæqualis, subtus niger puberulus, cypellis nullis, in Nova Zelandia. *Stictina Berteroana* in Juan Fernandez corticola. Stizenberger nec reactionem thalli nec locum systematicum in serie *Stictinarum* perspexit, quæ res sunt momenta maximi ponderis in specie determinanda. In *St. Hookeri* medulla K flavens.

3. *Physcia crispa* (Pers.) Nyl. *Syn.* p. 423, *Japon.* p. 33. — Rampodde super saxa, sed sterilis, inde non omnino certa. Point de Galle.
4. *Physcia hypoleuca* (Ach.) Nyl. *Syn.* p. 417. Thallus K +, sed medulla K — (quod corrigendum est in Nyl. *Guin.* p. 12), fibrillæ pallidæ aut nigricantes. Sporæ long. 0.032—40, crass. 0,015—20 millim. — Rampodde, corticola.
5. *Physcia leucomela* Mich., Nyl. *Syn.* p. 414. Thallus extus et intus K flavens. — Ibidem cum priore.
6. *Physcia comosa* (Eschw.) Nyl. *Syn.* p. 416. Thallus K —, medulla K +. — Rampodde, corticola.
7. *Physcia angustifolia* (Mey. et Flot.) Nyl. *Guin.* p. 11, *Syn.* p. 415 (ut var. *Ph. leucomelæ*). Thallus K —, medulla K +. — Rampodde, corticola.
8. *Physcia ægialita* (Ach.) Nyl. *Expos. N. Caled.* p. 43. *Ph. confluens* Nyl. *Syn.* p. 430. Thallus K +, medulla K —. Sporæ fuscæ long. 0.014—16, crass. 0.007—8 millim., hypothecium fuscum. — Rampodde, saxicola.
9. *Physcia papillulifera* Nyl. Similis *Physciæ pictæ* applanatæ, sed superficie papillulis minutis frequentibus isidiella. Thallus K +, medulla K —. — Sterilis solum visa in horto ad Point de Galle.
10. *Physcia picta* (Sw.) Nyl. *Syn.* p. 430. Thallus K +, intus —. — Peradenia, corticola.

### Trib. 12. — Pyxinei.

1. *Pyxine Meissneri* Tuck., Nyl. *Antill.* p. 9, *Japon.* p. 34. — Thallus supra et intus —. — Rampodde, saxicola.
2. *Pyxine sorediata* Ach. *Syn.* p. 54 sub *Lecidea*. Thallus supra + flavens, intus —.

### Series VI. — Lecano-Lecideodei.

#### Trib. 13. — Pannarinei.

1. *Coccocarpia molybdæa* Pers., Nyl. *Syn.* II. p. 42. — Peradenia, corticola.
2. *Pannaria leucosticta* Tuck., Nyl. *Syn.* II, p. 34. F. apotheciis biatorinis. Sporæ long. 0.021, crass. 0.010 millim. — Pedrotallegalle, corticola.

Trib. 14. — **Lecano-Lecideei.**Subtrib. I. — **Lecanorei.**Stirps 1. — **Lecanoræ cerinæ.**

1. *Lecanora subdolosa* Nyl. Thallus albidus continuus, sat tenuis, rimulosus, K —; apothecia pallido-rufescens prominula (latit. fere 0.5 millim.), margine thallino pallido lævi; sporæ 8:næ ellipsoideæ, long. 0.010—14, crass. 0.007—8 millim., loculo utriusque apicis vulgo tubulo junctis, epithecium K —. Iodo thecæ intensive et persistenter cœrulecentes. — Point de Galle, saxicola.

2. *Lecanora nigro-cinctella* Nyl. Thallus albidus continuus lævis, subtiliter subrimulosus, nigro-limitatus, K + flavens; apothecia obscura vel obscure ferruginea, plana, nigro-marginata (latit. 0.3 millim.); sporæ 8:næ oblongæ, long. 0.009—0.012, crass. 0.004—6 millim., loculo in utroque apice, peritheciun nigrum, epithecium luteo-pallens K purpurascens. Iodo gelatina hymenialis cœrulescens, dein fulvescens. — Point de Galle, saxicola.

Species lecideoidea bene distincta in vicinia *Lecanoræ ferrugineæ* (Huds.). Variat thallo sordido, sorediis albidis conspersus (his quoque K flaventibus).

3. *Lecanora Brebissonii* (Fée) Nyl. *N. Granat.* p. 30, *Boliv.* p. 377 (sporae in *Syn.* II, t. 9, f. 45). Var. *subdecadens*. Thallus albidus continuus; apothecia ochracea, margine dilutiore (latit. circiter 1 millim.); sporæ 3-loculares (loculis inter se tubulo junctis), long. 0.025—27, crass. 0.012—16 millim. Apothecia epithecio chrysophanice reagentia. — Rampodde, super ramulos.

Stirps 2. — **Lecanoræ sophodis.**

4. *Lecanora exigua* Ach., Nyl. *Scandin.* p. 150, *Paris* p. 52. Sporæ long. 0.014—18, crass. 0.007—8 millim. — Rampodde, saxicola.

Stirps 3. — **Lecanoræ atræ—coarctatæ.**

5. *Lecanora atra* Ach., Nyl. *Paris* p. 68. — Peradenia, corticola.

6. *Lecanora coarctata* (Ach.) Nyl. in *Flora* 1886, p. 101, *Paris* p. 68. Thallus albidus inæqualis rimosus, Ca Cl + erythrinose reagens; apothecia

pallida, margine thallino parum evoluto; sporæ ellipsoideæ (demon dilute rufescentes), long. 0.016—18, crass. 0.008—9 millim. — Rampodde, saxicola.

Stirps 4. — Lecanoræ subfuscæ.

6:bis. *Lecanora subfusca* Ach., Nyl. *Paris* p. 57. Sporæ long 0.011—14, crass. 0.007—8 millim. Iodo gelatina hymenialis intensive cœrulescens. — Peradenia, corticola. Rampodde.

7. *Lecanora chlorona* Ach. *Syn.* p. 158, Nyl. *Paris* p. 56. — Rampodde, corticola. Peradenia.

8. *Lecanora rugosa* (Pers.) Nyl. *Paris* p. 56. — Ibidem.

9. *Lecanora coilocarpa* Ach. *Syn.* p. 157, Nyl. *Scandin.* p. 160. Sporæ long. 0.016, crass. 0.008 millim. — Peradenia et Rampodde, corticola. Quoque super ramulos.

10. *Lecanora dissipans* Nyl. Thallus albidus rugulosus subverrucoso-dispersus; apothecia subfusca (latit. circiter 1 millim.), margine thallino subintegro cincta; sporæ ellipsoideæ, long. 0.010—11, crass. 0.005 millim., epithecium pallide fuscum. Thallus K + flavens ut in speciebus vicinis *L. subfuscæ*. — Rampodde, saxicola.

11. *Lecanora achroella* Nyl. *Rodrig.* p. 439, var. *infinitula*. Thallus albidus indeterminatus continuus, K flavens; apothecia luteo-pallida minuta (latit. 0.2—0.3 millim.), margine integro; sporæ long. 0.011, crass. 0.006 millim. Iodo gelatina hymenialis cœrulescens, dein obscurata. — Rampodde, lignicola. Peradenia, corticola. Similis in Hawaii insula (Remy). Observetur typum americanum sporas habere paullo majores.

12. *Lecanora collævans* Nyl. Thallus albidus aut glaucescens, tenuis, rimulosus, K flavens; apothecia nigra innata plana, immarginata (vel thallo circumcirca discesso sublecanorina); sporæ 8:næ oblongæ, long. 0.010—12, crass. 0.005 millim., epithecium pallidum. Iodo gelatina hymenialis cœrulescens, dein fulvescens. Spermatia arcuata, long. 0.022—24, crass. 0.0007 millim. Variant apothecia fuscescentia. Facies fere *Lecideæ lithophilæ* Ach. — Rampodde, saxicola.

13. *Lecanora varia* Ach., Nyl. *Scandin.* p. 163. Sporæ long. 0.014—16, crass. 0.007—8 millim. Epithecum inspersum. I thecæ cœrulescentes. — Rampodde, corticola.

Var. *subducens* Nyl. Apothecia sublivida, strato hypotheciali fuscescente, ceteroquin ut in *varia* typo. — Ibidem.

14. *Lecanora subvaria* Nyl. in *Flora* 1877, p. 463. Thallus flavidus granulosus et varians subpulveraceus; sporæ long. 0.012—16, crass. 0.007—8. I thecæ fulvescentes. — Rampodde, corticola.

**Stirps 5. — Lecanoræ graniferæ.**

15. *Lecanora granifera* Ach. *Syn.* p. 163, *Fée Ess.* p. 114, t. 28, f. 3, *Suppl.* p. 111, Nyl. *Syn. Novæ Caledonie* p. 28. Thallus cinerascens tenuis granulato-inæqualis, intus K flavo-reagens; apothecia nigricantia (latit. circiter 1 millim.), margine thallino crenulato cincta; sporæ ellipsoidæ, long. 0.016—18, crass. 0.008—9 millim., paraphyses gracilescentes, hypothecium fuscum. Spermatia ut in *Lecanora subfusca*. — Point de Galle, corticola.

16. *Lecanora furfurosa* Tuck., Nyl. *N. Gran.* p. 56. Huc pertineat adhuc *L. soredifera* Fée. Huc etiam pertineat *Lecanora Boninica* Tuck. in hb. Sporæ long. 0.011—14, crass. 0.005—8 millim. Iodo gelatina hymenialis cœrulescens, dein fulvo-obscurata. Facile pro *Lecidea* (*Biatora*) haberi possit, hypothecio et perithecio fuscis. — Peradenia, corticola.

17. *Lecanora sorediella* Nyl. Thallus cinerascens tenuis conferte sub-prominule albido-sorediellus, K flavescens; apothecia nigra plana lecideoidea (margine extus interdum subalbido); sporæ ellipsoideæ, long. 0.010, crass. 0.005 millim., epithecium lutescens, hypothecium fuscum. Iodo gelatina hymenialis fulvo-rubescens.

18. *Lecanora pulverata* Nyl. Thallus albidus pulverulentus, K flavescent; apothecia nigra (latit. 0.5—0.8 millim.), margine thallino lævi (saepe flexuoso) cincta; sporæ ellipsoideæ, long. 0.014—18, crass. 0.008—0.011 millim., paraphyses gracilescentes, epithecium lutescens, hypothecium fuscescens. Iodo gelatina hymenialis (præsertim thecis) cœrulescens. — Peradenia, corticola.

**Stirps 6. — Lecanoræ tartareæ et cineræræ.**

19. *Lecanora tartarea* (L.) Ach., Nyl. *Scandin.* p. 157, *Paris* p. 67. Thallus et apothecia Ca Cl +. Apothecia margine granulato, sporis long. 0.064—66, crass. 0.030—32 millim. — Peradenia et Rampodde, corticola.

20. *Lecanora lacustris* (With.) Nyl. *Scandin.* p. 150. Thallus albidus lævis rimosus, K —; apothecia pallide carneæ concaviuscula mediocria; spo-

ræ long. 0.021, crass. 0.007—8 millim. Iodo gelatina hymenialis vinose rubescens. — Pedrotallegalle, saxicola.

Stirps 7. — Lecanoræ perteneræ et puniceæ.

21. *Lecanora pertenera* Nyl. Thallus albidus tenuis maculiformis dispersus, gonidiosus; apothecia pallida minuta (latit. 0.1—0.2 millim.), thallinomarginata; sporæ fusiformes 1-septatæ, long. 0.005, crass. 0.002 millim., paraphyses vix ullæ. Iodo thecæ fulvo-rubescentes. — Peradenia, foliicola. Est stirpis propriæ.

22. *Lecanora achroelloides* Nyl. Thallus albidus tenuis lævis, K —; apothecia luteo-pallida minuta (latit. fere 0.25 millim.), marginatula; sporæ fusiformes 3-septatæ, long. 0.011—20, crass. 0.004—5 millim., paraphyses graciles. Iodo gelatina hymenialis leviter et fugaciter cœrulescens. Gonidia parva. Subsimilis *L. achroellæ*. — Peradenia, corticola (speciminulum solum visum). Est species stirpis propriæ.

23. *Lecanora punicea* Ach., Nyl. *Syn. N. Caled.* p. 30. — Peradenia, corticola.

Subtrib. II. — Lecideei.

Gyalecta—Biatora.

24. *Gyalecta effervescens* Nyl. *Paris* p. 76. Thallus albidus tenuis effusus, acido hydrochlorico effervescens; apothecia luteo-pallida conferta plana marginata (latit. circiter 0.25 millim.), intus incoloria; sporæ fusiformes 3-sepatatæ, long. 0.016—20, crass. 0.004 millim., paraphyses graciles. Iodo gelatina hymenialis dilute cœrulescens. Gonidia glomerata. — Peradenia, super ramulos.

25. *Lecidea sublutea* Nyl. Thallus cinerascens tenuis rugulosus, ambitu albo prothallino; apothecia testacea plana (latit. circiter 1 millim), margine tenui pallidiore; sporæ ellipsoideæ simplices, long. 0.099—0.012, crass. 0.004—7 millim., paraphyses graciles. Iodo gelatina hymenialis leviter cœrulescens, dein fulvo-lutescens. Facie fere *Gyalectæ luteæ* (Dicks.). — Point de Galle, corticola.

26. *Lecidea deminuescens* Nyl. Similis *L. sanguineoatrae* \* *atrofuscæ* Flot., sed sporis minoribus, long. 0.008—9, crass. 0.003—4 millim. — Ram-podde, corticola.

27. *Lecidea subrufescens* Nyl. Thallus cinerascens tenuis opacus, K —; apothecia rufescentia plana marginata (latit. circiter 0.5 millim.); sporæ ellipsoideæ, long. 0.011—17, crass. 0.006—8 millim., paraphyses graciles, epithecium lutescens, hypothecium incolor. Iodo gelatina hymenialis cœrulescens, dein fulvo-rubescens (thecæ præsertim tinctæ). Facie *L. acerinæ* (Pers.). — Peradenia et Rampodde, corticola.

28. *Lecidea versicolor* Fée., Nyl. *Syn. N. Caled.* p. 49, *N. Zeland.* p. 88. Thallus albidus rugosus, K flavescens; apothecia fusca plana marginata (latit. 1—2 millim.); sporæ ellipsoideæ 1-septatæ, long. 0.045—75 millim., crass. 0.025—35 millim., paraphyses graciles, hypothecium incolor. Iodo thecæ fulvo-rubescentes. Thecas non vidi octosporas in Ceylonica. Variant sporæ curvulæ. — Pedrotallegalle, corticola.

29. *Lecidea intermixta* Nyl. *Chil.* p. 161 (1855), *Prodr.* p. 105, Arn. *L.* 603 (ex Hungaria, Lojka). Thallus albidus tenuis continuus, K flavens; apothecia nigra marginata; sporæ incolores oblongæ-ellipsoideæ 1-septatæ, long. 0.012—18, crass. 0.006—7 millim., hypothecium superius (subthalamium) fusco-violascens. Iodo gelatina hymenialis vinose fulvo-rubescens. Epithecium incolor, capitulis paraphysum passim nigricantibus. — Peradenia, corticola (solum frustulum inde visum). Etiam in Rampodde.

Ad *Lecideam intermixtam* observetur eam omissam fuisse in Nyl. *Paris* p. 135. In Nyl. *Prodr.* p. 105 dicitur: Forma obscurior hujus speciei (tum extus sat similis *L. parasemæ* thallo tenui cinerascente vel obsoleto) rarius in regione Parisiensi occurrit fagicola et rarissime super cimentum murorum prope Fontainebleau. Nomen ei datur *parasemoides* in Nyl. *Enum. génér.* p. 120. Iodo gelatina hymenialis bene cœrulescens, dein obscurata. Est species valde variabilis. Apothecia typi rufescentia, fuscescentia aut nigrescentia. Exemplum sistit quomodo in eadem specie Biatora et Eulecidea in variis varietatibus obvenire possunt, quod docet absurdam esse earum divisionem in generibus diversis sicut temere volunt novatores hodierni haud pauci.

30. *Lecidea submedialis* Nyl. Thallus albidus tenuis continuus, K flavescens; apothecia testacea plana (latit. fere 0.5 millim.), margine subpallidore; sporæ fusiformi-aciculares 7-septatæ, long. 0.040—50, crass. 0.0035 millim. Iodo gelatina hymenialis vinose rubescens. Arcte affinis videtur *L. spadiceæ*. — Peradenia, corticola<sup>1)</sup>.

<sup>1)</sup> Memoretur hic *Licidea scitula* Tuck., cui thallus cinereo-cæsius continuus (K —); apothecia testacea (latit. 0.4—0.5 millim.); sporæ fusiformes 5—septatæ, long. 0.016—20, crass. 0.004—5 millim. Iodo gelatina hymenialis cœrulescens, dein vinose rubescens. In Cuba ramulicola (C. Wright). Sporis accedit ad *L. sphaeroidem* Smrf, sed paraphysibus gracilibus.

30:bis *Lecidea subannexa* Nyl. Thallus lutescenti-pallidus inæqualis; apothecia rufescentia vel fuscescentia marginata aut margine evanescente (latit. 0.5—0.6 millim.); sporæ lineariformes 5-septatæ (long. 0.020—27, crass. 0.0045 millim.), epithecium inspersum, paraphyses graciles, hypothecium incolor. Iodo gelatina hymenialis dilute cœrulescens, dein fulvescenti-violascens. — Rampodde, corticola.

31. *Lecidea spadicea* Ach., Tuck. Thallus cinerascens tenuissimus, K flavens; apothecia nigricantia; sporæ fusiformi-aciculares 3—13-septatæ, long. 0.055—69, crass. 0.004 millim. Iodo gelatina hymenialis cœrulescens, dein vinose obscurata. Etiam visa apotheciis rufo-rubellis. Vix distincta a *L. fusco-rubella* Hffm., Ach. — Peradenia, corticola.

Accedit quoque apotheciis testaceis ad *L. millegranam* Tayl.

32. *Lecidea endoleuca* Nyl. var. *Laurocerasi* Del. *B. atrogrisea* Hepp. Zw. *L.* 338. Thallus cinerascens tenuis; apothecia fusca, basi subpallescens; sporæ 7—15-septatæ, long. 0.040—50, crass. 0.0025—35 millim., epithecium fuscum. Iodo gelatina hymenialis cœrulescens, dein vinose rubescens. — Rampodde, corticola.

33. *Lecidea pelidniza* Nyl. in *Flora* 1874, p. 318. Thallus cinerascens tenuissimus; apothecia fusca vel nigricantia, marginata, basi pallescente; sporæ vermiformes 7—15-septatæ, long. 0.035—55, crass. 0.025—35 millim., hypothecium sublutescens. Iodo gelatina hymenialis vinose rubens. — Rampodde, corticola (frustulum solum visum).

### Eulecidea.

34. *Lecidea homochromoides* Nyl. Subsimilis *L. parasemæ*, sed thallus sordide luteo-cinerascens, nec K nec Ca Cl reagens; apothecia rufescentia margine nigro. — Peradenia, corticola.

35. *Lecidea enteroleuca* Ach., Nyl. *Paris* p. 90. — Rampodde, corticola et saxicola.

36. *Lecidea metaleptodes* Nyl. Thallus albidus rugulosus, continuus, sat tenuis, K flavens; apothecia nigra vel obscure ferruginea, plana, marginata aut convexiuscula margine excluso, latit. 0.5—0.9 millim., discus sæpius cæsiopruinosus, margo niger; sporæ 8:næ fuscae oblongæ 1-septatæ, long. 0.014—17, crass. 0.005—7 millim., epithecium lutescens, paraphyses gracilescentes, hypothecium fuscum. Iodo gelatina hymenialis bene cœrulescens, dein obscurata, epithecium K violascens. — Peradenia, corticola.

37. *Lecidea disciformis* Fr., Nyl. *Paris* p. 98. Thallus granulato-inæqualis, K flavens. Sporæ fuscæ 1-septatæ, long. 0.010—20, crass. 0.007—8 millim. — Peradenia et Rampodde, corticola. Hæc apotheciorum disco subcæsio-prinoso. Sporæ long. 0.018—23, crass. 0.007—9 millim. Iodo gelatina hymenialis intensive cœrulescens.

\* *L. nubila* Nyl. Thallus cinereo-fuscescens tenuis rugulosus; apothecia nigra plana marginata (latit. 0.3—0.4 millim.). Sporæ long. 0.016—20, crass. 0.007—0.011 millim. Iodo gelatina hymenialis intensive cœrulescens. — Rampodde, super lignum putridum.

38. *Lecidea triphragmia* Nyl. *Prodr.* p. 141, *Scandin.* p. 236, *Flora* 1869, p. 298. Thallus K flavens. Sporæ fuscæ 3-septatæ, long. 0.015—21, crass. 0.007—8 millim. — Peradenia, corticola.

39. *Lecidea myriocarpa* DC., Nyl. *Prodr.* p. 141, *Paris* p. 100. — Ibidem.

40. *Lecidea pusillula* Nyl. Thallus cinerascens tenuissimus continuus indeterminatus; apothecia nigra punctiformia planula (latit. circiter 0.1 millim.); sporæ 8:næ fuscæ 1-septatæ, long. 0.010—11, crass 0.005—6 millim., hypothecium incolor, epithecium fusco-nigricans. Iodo gelatina hymenialis cœrulescens, dein obscurata. — Rampodde, saxicola, socia *Lecanoræ exiguae*, pertinens ad stirpem *Lecideæ atroalbellæ* prope *L. microteram* et *minutulam* thallo K —, I —, minutie jam distincta.

### Trib. 15. — Pertusariei.

1. *Pertusaria communis* DC. var. *pertusula* Nyl. Est minor quam typus. Thallus K —, medulla K flavescentia. Apothecia ostiolis punctiformibus nigris, Sporæ binæ, long. 0.096—0.110, crass. 0.036—40 millim. — Peradenia, corticola.

2. *Pertusaria leucosorodes* Nyl. Subsimilis *P. leucosoræ* Nyl., thallo albido ruguloso rimuloso, sorediis K flaventibus. — Rampodde, corticola.

3. *Pertusaria leioplaca* (Ach.) Schaer., Nyl. *N. Gran.* p. 36, *Paris* p. 72. Thallus K —. Sporæ 8:næ long. 0.080—0.145, crass. 0.042—0.050 millim. — Point de Galle, Peradenia, Rampodde, corticola.

4. *Pertusaria melastomella* Nyl. Thallus albidus tenuis continuus, K—; apothecia in verrucis mastoideo-convexis monohymeneis (latit. 1 millim. vel minoribus), puncto epitheciali nigro; thecæ 8-sporæ, long. 0.056—85, crass. 0.030—32 millim. Affinis *P. leioplacæ*, sed notis datis distineta. — Pedrotallegalle, ramulicola.

5. *Pertusaria tuberculifera* Nyl. *N. Gran.* p. 38. Thallus K —. Sporæ 8:næ long. 0.060—0.100, crass. 0,028—55 millim. Protuberantiae apotheciorum latit. 2—3 millim. — Pedrotallegalle, corticola.

Trib. 16. — ***Thelotremae.***

1. *Thelotrema porinoides* Mnt. & v.d.B. *Java* p. 53, *Syll.* p. 363. *Th. albidiforme* Leight. *Ceyl.* p. 170, t. 36, f. 9. Thallus K ferruginascens. Sporæ 18—20-loculares, long. 0.070—75, crass. 0.011—18 millim., I +. In Ceylon ex hb. Leight.

2. *Thelotrema dolichosporum* Nyl. in coll. Hook. Thoms. 2228 e Ceylon, *Lab. Sing.* p. 5. Thallus subgranulato-inæqualis, K ferruginascens. Sporæ 16—18-loculares, 6—8:næ long. 0.080—85, crass. 0.015—17 millim., I +<sup>1)</sup>.

3. *Thelotrema dolichotatum* Nyl. *Lab. Sing.* p. 19. Thallus K dilute ferruginascens. Thecæ monosporæ, sporæ fusiformes incolores 30-loculares, long. 0.185—0.205, crass. 0.023—25 millim., I +. — Pedrotallegalle, corticola.

4. *Thelotrema lepadinum* Ach., Nyl. *Paris* p. 75. Thallus K ferruginascens. Sporæ fusiformes murales 1—4:næ, long. 0.055—0.100, crass. 0.014—24 millim. (I non obscuratæ). — Pedrotallegalle, corticola.

\* *Thelotrema lepadizum* Nyl. Vix nisi subspecies tenuior prioris. Subsimile *Thelotrema lepadino* Ach., thecis tenuioribus 1—4-sporis (sæpissime bisporis). Sporæ fusiformes murales, long. 0.048—0.110, crass. 0.011—25 millim. — Peradenia, ramulicola. Comparetur quoad sporas *Th. adjectum* Nyl. e Cuba.

5. *Thelotrema patens* Nyl. Thallus cæsio-albidus tenuis K —; apothecia innata suburceolata pallida, nuda aut cæsio-pruinosa (latit. fere 1 millim.), margine albicante; thecæ monosporæ, long. 0.100—0.130, crass. 0.030—40 millim., I —. Notis his facile dignotum. — Pedrotallegalle, corticola.

6. *Thelotrema epityrum* Nyl. *N. Gran.* p. 49. Thallus albidus tenuis illiniens; apothecia in protuberantiis firmis (latit. circiter 1 millim.), intus albo-subobtutatis variantibus supra subcribellatis; sporæ 8:næ fuscæ ellipsoideæ

<sup>1)</sup>) Memoretur hic obiter *Th. Texanum* Willey e stirpe *Thelotrema cavati* Ach., apotheciis lecanoroideis albis (albo-suffusis), latit. 0.5 millim., disco disco; sporis 16—26-locularibus, long. 0.040—75, crass. 0.005—7 millim., I —, e Texas. Comparetur quoad faciem *Th. platycarpoides* Tuck.

4-loculares (loculis mediis in 2 divisis), long. 0.014—16, crass. 0.009 millim., I obscuratæ. — Pedrotallegalle, corticola.

7. *Thelotrema subinalbescens* Nyl. Thallus albus tenuis continuus, K ferruginascens; apothecia innata (protuberantia nulla vel levi), apertura firma; sporæ fuscescentes vel fuscæ oblongæ 6—8-loculares, long. 0.016—18, crass. 0.007—8 millim., I vix obscuratæ. — Point de Galle, corticola.

Pertinet ad stirpem *Thelotrematis calvescentis* et *leucotremæ*. Affine *Th. phæospermo* Nyl. in Wright. Cub. n:o 45 (ex Tuck. eo pertinet quoque n. 16).

8. *Asteriscion erumpens* Leight. Ceylon p. 163. Thallus parum evolutus; apothecia rufescenti-cinnabarina plana innata rotundata (latit. circiter 1 millim.), margine thallideo corrugato fere 6-lobato coronata; sporæ 8:næ fuscescentes oblongæ 4—6-loculares, long. 0.015—17, crass. 0.005 millim., paraphyses distinctæ. Iodo gelatina hymenialis non tincta, nec sporæ. Forsan genus distinguendum a *Thelotremate*. — Peradenia, corticola.

9. *Urceolaria gypsacea* (Ach.) Smrf., Nyl. Paris p. 74. Thallus Ca Cl +, medulla K —. Sporæ long. 0.021—24, crass. 0.009—0.010 millim. — Ram-podde, saxicola.

10. *Urceolaria Rampoddensis* Nyl. Thallus albidus tenuis rimoso-diffractus, Ca Cl +; apothecia pruinosa-suffusa urceolata (latit. fere 1 millim. vel minora); sporæ fuscæ submurali-divisæ turgide fusiformes, long. 0.022—24, crass. 0.009—0.010 millim. I gelatina hymenialis —. Thallo diffracto etc. bene distincta. Medulla I —. — Rampodde, saxicola.

### Series VII. — Graphidodei.

#### Trib. 17. — Graphidei.

1. *Opegrapha inæqualis* Fée, Nyl. in Flora 1867, p. 6. Subsimilis *O. vulgaræ* Ach., quoad faciem externam, sed sporæ 5—7-septatae, long. 0.025—27, crass. 0.006—7 millim. Iodo gelatina hymenialis fulvo-rubescens. Thallus cinerascens tenuissimus; apothecia parva linearia simplicia, epithecio rimiformi (long. 0.5—1 millim.). — Peradenia, corticola.

2. *Opegrapha leptoterodes* Nyl. Thallus cinerascens opacus tenuissimus indeterminatus; apothecia nigra opaca minuta lineoliformia, epithecio rimiformi; sporæ fusiformes 1—3-septatae, long. 0.015—16, crass. 0.003 millim. Iodo gelatina hymenialis fulvo-rubens. — Point de Galle et Peradenia, corticola.

Affinis *O. leptoteræ* Nyl. N. Caled. p. 56, quæ sporas habet nonnihil majores.

3. *Chiodescon sphærale* Ach., Nyl. *Gran.* p. 110, *Guin.* p. 33. Apothecia nigra punctiformia in stromatibus convexis aut depresso aggregata. Sporæ aciculares long. 0.023, crass. 0.002 millim. (non rite evolutæ). — Peradenia, corticola.

4. *Stigmatidium præpallens* Nyl. *Japon.* p. 84. Thallus albidus tenuissimus, Ca Cl bene erythrinosus; apothecia pallida tenella vermiculiformia; sporæ fusiformes indistincte 5-septatae, long. 0.023, crass. 0.003 millim. Iodo gelatina hymenialis et sporæ fulvo-rubescentes. — Point de Galle, corticola. Socium *Arthoniae dispersulae*. Etiam lignicola.

Apothecia breviora quam in *saxicola japonica* et non discissa.

5. *Arthonia cinnabarina* Wallr., Nyl. *Arth.* p. 88, *Prodr.* p. 163, var. *orbicella* Nyl. Apothecia albo-pruinosa cinnabarina marginata rotundata (latit. circiter 0.25 millim.). Sporæ 4-septatae, long. 0.023—24, crass. 0.009 millim., demum fuscæ. Iodo gelatina hymenialis fulvo-rubescens. — Point de Galle, corticola.

6. *Arthonia stenographella* Nyl. *N. Gran.* 2, p. 99, *Japon.* p. 85. Sporæ 3-septatae, long. 0.012—14, crass. 0.0045. Iodo gelatina hymenialis fulvo-rubescens (præcedente cœruleo-quadam). — Peradenia, super ramulos.

7. *Arthonia rubiginella* Nyl. Thallus cinerascens tenuissimus indeterminatus; apothecia rubiginosa vel nigricanti-rubiginosa, tenuiter astroideo-divisa; sporæ oviformes 2-septatae, long. 0.020—23, crass. 0.008—0.010 millim. Iodo gelatina hymenialis cœruleo-quadam, dein mox vino-rubens. — Point de Galle, corticola.

8. *Arthonia opegraphina* Ach. (sub *astroidea* Syn. p. 6). Apothecia nigricantia substellari-divisa; sporæ 3—4-septatae, long. 0.014—21, crass. 0.005—7 millim. Iodo gelatina hymenialis cum thecis vino-rubescens. — Peradenia, corticola.

Vix distinguenda a *stenographella*. Huc pertinet *A. stellaris* Kmphb. (an Edeltannen bei Marquartstein) *Lich. Bay.* p. 296. In nota datur definitio *A. albella* Zw. *L.* 358, *Lich. Heidelb.* p. 43.

9. *Arthonia dispersula* Nyl. in *Flora* 1876, p. 285, Will. *Arth.* p. 30, *A. Austini* Will. *Arth.* p. 3. Thallus albus tenuissimus laevis maculiformis; apothecia nigra graciliter substellata aut simplicia irregulariter lancolata subflexa; sporæ 1-septatae, long. 0.009—0.010, crass. 0.0035 millim. Iodo gelatina hymenialis vino-rubens. — Point de Galle, corticola.

\* *A. simplicata* Nyl. Differt apotheciis subrotundatis vel oblongis simplicibus. — Socia *A. dispersulae* substellatae.

10. *Arthonia phyllospiliza* Nyl. Thallus parum visibilis opacus, flabellato-cellulosus, subvirescens; apothecia fusca applanata subrotundata vel nonnihil difformia (latit. circiter 0.3 millim.), sporæ bisepatatæ, long. 0.011—12, crass. 0.004 millim. Iodo gelatina hymenialis vinoise rubescens. — Peradenia, foliocola, socia *Verrucariæ præstantis*.

11. *Arthonia simplicascens* Nyl. Similis *Arthoniæ anastomosanti*, sed sporæ simpliciores oviformi-oblongæ vel fusiformi-oblongæ, 5—7-septatæ, long. 0.016—18, crass. 0.006—7 millim. — Peradenia, corticola<sup>1)</sup>.

12. *Arthonia anastomosans* Ach. L. U. p. 146, Nyl. *Scandin.* p. 259, Branth *Lich. Dan.* p. 123. Thallus obsoletus; apothecia nigra minutula subastroidea vel difformia; sporæ incolores ellipsoideæ murali-divisæ, long. 0.020—25, crass. 0.009—0.012 millim. Iodo gelatina hymenialis et sporæ fulvo-rubentes (hæ sic in thecis). — Point de Galle, Peradenia, corticola.

13. *Arthonia spectabilis* Flot., Nyl., Will. *Arth.* p. 51. Apothecia nigra applanata rotundato-difformia (latit. circiter 0.5 millim.); sporæ murales, long. 0.040—44, crass. 0.012—16 millim. Iodo gelatina hymenialis et sporæ vinoise rubentes. — Point de Galle, corticola.

14. *Melaspilea subdeformis* Nyl. Thallus albidus tenuissimus vel obsoletus; apothecia nigra rotundata-difformia (latit. circiter 0.3 millim.); sporæ incolores oviformi-oblongæ 1-septatæ, long. 0.021—27, crass. 0.007 millim. (I vinoise rubescentes), hypothecium non infuscatum. Comparanda cum *M. deformi* Schær., quæ sporas habet minores etc. — Peradenia, corticola.

15. *Melaspilea perminuta* Nyl. Thallus albido-glaucens opacus tenuissimus continuus; apothecia nigra innata punctiformia vel subdifformia (latit. circiter 0.1 millim.); sporæ oviformes 1-septatae, long. 0.010—12, crass. 0.005 millim., paraphyses graciles parcæ. Iodo gelatina hymenialis non tincta, sporæ dilute rubescentes. — Point de Galle, corticola.

Affinis est javanica *M. myriostigma* Nyl. in *Flora* 1866, p. 134, quæ sporas habet paullo majores, thallum rimulosum etc.

16. *Graphis scripta* Ach., Nyl. *Paris* p. 114. Sporæ 12-loculares, long. 0.040—60, crass. 0.010—12 millim. I +. — Peradenia, corticola.

17. *Graphis tenella* Ach., Nyl. *N. Gran.* p. 561. Sporæ 8-loculares, long. 0.023—25, crass. 0.008 millim. I +. — Ibidem.

18. *Graphis assimilis* Nyl. *Prodr.* p. 150, *N. Gran.* p. 74. Sporæ incolores fusiformes 8—10-loculares, long. 0.027—40, crass. 0.008 millim. I +. Hypothecium nigrum. — Ibidem.

<sup>1)</sup> Memoretur hic *A. pellæa* Leight. *Ceyl.* p. 180, t. 36, f. 27, Will. *Arth.* p. 48. Apothecia fusconigra rotundata-difformia. Spore fuscae 7-septatae.

19. *Graphis striatula* Ach., Nyl. *N. Gran.* p. 77. Sporæ incolores 12—14-loculares, long. 0.038—60, crass. 0.009 millim., I nonnihil obscuratæ. Hypothecium varians nonnihil infuscatum. — Pedrotallegalle, Rampodde, corticola.

20. *Graphis dendritica* Ach., Nyl. *Prodr.* p. 150, *N. Gran.* p. 79. Sporæ fuscæ 6-loculares, long. 0.023—27, crass. 0.007 millim., I obscuratæ. Hypothecium fuscum. — Pedrotallegalle, Rampodde, corticola.

21. *Graphis irradians* Nyl. Thallus glauco-cinerascens tenuissimus opacus (K flavens); apothecia radiantia, epithecio demum planiusculo; sporæ incolores oblongæ 6—8-loculares, long. 0.011—23, crass. 0.005—6 millim., I vix tintæ. E stirpe *Graphidis inusta* Ach. — Point de Galle, corticola.

22. *Graphis sophistica* Nyl. *N. Gran.* p. 74. *Gr. anguina* Nyl. *Prodr.* p. 149. Extus sat similis *Gr. scriptæ*, sed sporis 4—8:nis muralibus (I +), long. 0.023—50, crass. 0.014—21 millim. Hypothecium incolor. — Peradenia, corticola.

23. *Graphis Cingalina* Nyl. Comparanda cum subsimili *Graphide subnitida* Nyl. *Guin.* p. 49. Thallus macula pallida subnitidiuscula indicatus; apothecia incoloria innata obducta linearia, supra per fissuram hiascentia; sporæ 8:næ incolores ellipsoideæ murali-divisæ, long. 0.020—25, crass. 0.010—15 millim. (I et gelat. hym.—). — Point de Galle, corticola. *F. subnitida* Brasiliensis differt præcipue sporis nonnihil majoribus (long. 0.027—35, crass. 0.013—16 millim.).

24. *Graphis subserpentina* Nyl. *N. Gran.* p. 75. Thallus tenuis glauco-cinerascens lœvigatus opacus determinatus; apothecia innata elongata flexuosa gracilia, passim ramosa, fissuræ thallina cineta, epithecio rimiformi, hypothecio incolore; thecæ monosporæ, sporæ incolores murali-divisæ, long. 0.088—0.110, crass. 0.023—24 millim., I +. — In Ceylon corticola (Gardner ex hb. Hooker).

Variant thecæ rarius bi-sporæ, tum sporæ minores. Spermogonia spermatis minutis bacillaribus, long. fere 0.0045 millim., crass. fere 0.001 millim. — Point de Galle, corticola.

25. *Graphis leprographa* Nyl. Affinis priori, apotheciis vero facie sicut in *Gr. sophistica*, thecis autem monosporis. Sporæ incolores grosse fusiformes murali-divisæ, long. 0.070—92, crass. 0.020—24 millim. (I obscuratæ). Hypothecium incolor. Thallus albidus tenuis farinoso-leprodeus K —. Gonidia parva. Apothecia sæpe a thallo suffusa. — Point de Galle, corticola et saxicola.

26. *Graphis obtecta* Nyl. in *Flora* 1867, p. 8, 1869, p. 72. *N. Gran.* p. 83 quoad indicam. et coll. Hook. n:o 2264. Thallus albidus opacus (K e flavo ferruginascens); apothecia linearia simplicia aut parum divisa, epithecio saepe hiascente suffuso; thecæ monosporæ, sporæ murales, long. 0.060—125, crass. 0.018—45 millim. Gelatina hymenialis et sporæ I cœrulecentes. — Peradenia, corticola.

Vix differt *Graphis glaucoleucodes* Nyl., quæ est *Gr. Poitæi* Nyl. *N. Gran.* p. 566 (non Fée) et Lindig coll. n:o 144, et ab ea parum distat *Gr. Columbiana* Nyl. (*obtecta* var. in *N. Gran.* p. 83), sed hæc habet thallum K —. Distinguenda est ab indica *obtecta* affinis *Gr. particeps* Nyl. (etiam data in coll. Hook. et Thoms. sub numero 2264), ei thallus K — et apothecia perithecio supra saltem tenuiter nigricante (inde striga supera in sectione) et adest quoque in Nova Caledonia (lecta in Lifu a Deplanche et Thiébaut). — *Gr. monophora* dicenda est quæ datur in coll. Lindig n:o 2724 pro parte (etiam numeris 794, 877, 901) et quæ vix sistit nisi varietatem thecis monosporis *Graphidis virginea* Eschw.; thallus et apothecia K + flaventia (immixta sub *Gr. obtecta* var. *columbiana* in Nyl. *N. Gran.* p. 83).

27. *Graphis concolor* Nyl. *Enum. génér.* p. 129 (nomen). Thallus albidus opacus tenuis, K —; apothecia oblongo-linearia innata marginata thallo-deo-velata; thecæ monosporæ, sporæ murales incolores, long. 0.100—160, crass. 0.028—44 millim., I +. — Peradenia, corticola. Specimen miserum solum visum. Forsan *Ustalia Junghuni* Mnt. & V. d. Bosch *Lich. Javan.* p. 51 hoc pertinet, sed descriptio parum convenit.

28. *Graphis chrysentera* Mnt., Nyl. *N. Gran.* p. 565. Apothecia striatula, rima epitheliali nigrescente; sporæ murali-divisæ, long. 0.072—80, crass. 0.020—23 millim., I +. — Rampodde, corticola.

29. *Graphis chrysenterodes* Nyl. *Gr. excellens* Nyl. in Husn. *Antill.* p. 21 (ut var. *chlorocarpæ* Fée), *Lab.* p. 11. Thallus albidus opacus tenuis K —; apothecia pallida fusiformi-linearia vel longiora, epithecio rimiformi; sporæ 2—8:næ incolores murali-divisæ, long. 0.060—0.100, crass. 0.016—23 millim., demum subfuscantes, I +. — Peradenia, corticola (solum frustulum visum).

30. *Graphis grisea* Nyl. *Enum génér.* p. 129. Thallus macula pallide grisea indicatus; apothecia prominula margine albido-griseo tumide cincta, oblonga aut linearia, subflexuosa, varia, epithecio concavo albosuffuso, intus nigra, hymenio incolore; sporæ 4—8:næ incolores vel leviter fuscantes, oblongæ murali-divisæ, long. 0.080—120, crass. 0.025—27 millim., I gelatina hymenialis fulvescens, sporæ obscuratae, peritheciū cum hypothecio denigratum. — Peradenia, corticola. Antea lecta a Gardner.

31. *Graphis bilabiata* Nyl. *Enum. génér.* p. 129, *Guin.* p. 28. Sporæ 1—2:næ in thecis, long. 0.055—0.100, crass. 0.025—42 millim., I + cœrulentes. — Labuan.

32. *Fissurina dimorphodes* Nyl., Leight. *Ceyl.* p. 176, t. 36, f. 15. Sporæ 4-loculares loculis mediis (1 vel 2) medio interruptis, long. 0.010—15, crass. 0.006—7 millim., I obscuratæ. Paraphyses graciles apice (clava fusca nulla) vix clavatæ luteo-fuscescentes inspersæ, inde epithecium luteo-fuscescens. Margo thallinus apotheciorum semel striatus. — In Ceylon legit Thwaites ex hb. Hook.

Affinis *Fissurinæ dimorphæ* Nyl. *N. Gran.* p. 80, Wright *Cub.* n:o 3 f. Subsimilis *Graphidi chrysenteræ* Mnt.

33. *Glyphis favulosa* Ach., Nyl. *Antill.* p. 21. Sporæ 8:næ incolores 8—10 loculares, long. 0.027—37, crass. 0.008—9 millim. — Peradenia, corticola. Calcutta (Kurz).

34. *Glyphis torquescens* Nyl. *Jap.* p. 114, *Lab.* p. 13. Thallus macula pallescente indicatus (K vix lutescens); apothecia nigra depressa in stromatibus indistinctis albido-suffusis subcontorta lineis epithelialibus rimiformibus (contortis); sporæ fuscae oblongæ transversim 6—8-loculares (loculis mediis 1—3-divisis), long. 0.023—33, crass. 0.008—0.011 millim. (I nonnihil tinctæ), paraphyses inspersæ, hypothecium cum perithecio nigrum. — Peradenia, corticola.

35. *Glyphis subtorquescens* Nyl. Thallus macula pallida indicatus; apothecia in stromatibus albidis difformibus (K sublutescentibus) intricatis planiuscula vel concaviuscula pruinosa; sporæ fuscescentes oblonge 6-loculares (loculis mediis 1—3-divisis), long. 0.023—27, crass. 0.009—0.011 millim. (I +), hypothecium et peritheciun nigra. — Peradenia, corticola.

Affinis *Glyphidi torquescenti* Nyl., sed facie *Gl. medusulinæ* Nyl. *N. Gran.* p. 108, quæ sporas alias habet.

36. *Glyphis confluens* Mnt., Nyl. *N. Gran.* p. 109. Sporæ fusiformes 10-loculosæ, long. 0.038, crass. 0.007 millim., I obscuratæ. — Pedrotallegalle, corticola.

### Series VIII. — Pyrenocarpoidei.

#### Trib. 18. — Pyrenocarpei.

1. *Verrucaria luteo-pallens* Nyl. Thallus glaucescens tenuissimus effusus haplogonidicus; apothecia luteo-pallescentia mastoideo-prominula (latit 0.5 mil-N:o 10.

lim.); sporæ fusiformes 9—11-septatæ, long. 0.080—85 millim., crass. 0.016—18 millim. — Super ramulum in Pedrotallegalle.

E stirpe *Verrucariæ mastoideæ*. Prope *Verrucarium globosam* Tayl., Nyl. in *Flora* 1883, p. 534, *Guin.* p. 38 sit disponenda.

2. *Verrucaria præstans* Nyl. *Angol. Welwitsch.* p. 15, *Lich. Andam.* p. 19. Similis *Verrucariæ epiphyllæ* Nyl. *Pyrenoc.* p. 38, sed sporis 7-septatis, long. 0.020—25, crass. 0.004 millim. — Foliicola, thallo subvirescente parum evoluto platygonidico.

3. *Verrucaria Ceyloniensis* Mass. ex hb. Hmp. Thallus albus obsoletus; apothecia mediocria (latit. 0.4—0.7 millim.) pyrenio dimidiatim nigro, medio prominulo epithecio impressulo; sporæ incolores oblongo-ovoideæ vel oblongæ 1-septatæ, long. 0.023—38, crass. 0.009—0.013 millim., paraphyses nullæ vel haud distinctæ. Gelatina hymenialis Iodo non tincta. — Corticola in Ceylon. E stirpe *Verrucariæ epidermidis*.

4. *Verrucaria luteo-nitens* Nyl. Thallus macula lutescente nitidiuscula indicatus; apothecia pyrenio nigro (latit. 0.5 millim.) plus minusve obducta; thecæ monosporæ, sporæ incolores vel dilute fuscantes murales, long. 0.230—0.330, crass. 0.070—90 millim., paraphyses gracillimæ confertæ, protoplasma thecarum et sporæ I rosello-tincta. — Pedrotallegalle, corticola.

5. *Verrucaria epapillata* Nyl. *Pyrenoc.* p. 43 (coll. Hook. et Thoms n:o 2286), *N. Gran.* p. 576, *Wright Cub.* n:o 27. Thallus macula pallescente indicatus; apothecia epapillata et fere tota obtecta; sporæ binæ fuscæ oblongæ murali-divisæ, long. 0.140—0.205, crass. 0.036—50 millim. — Corticola.

Facile *Pyrenastrum* cum *V. luteo-nitente*.

6. *Verrucaria nitida* Schrad., Nyl. *Pyrenoc.* p. 45, minor. Sporæ long. 0.023—26, crass. 0.010—12 millim. — Point de Galle, corticola.

\* *Verrucaria nitidella* Flk., Nyl. l. c. p. 46. Sporæ long. 0.021—23, crass. 0.008—0.012 millim. — Pedrotallegalle, corticola.

7. *Verrucaria marginata* Hook., Nyl. ibidem. Sporæ long. 0.018—30, crass. 0.010—11 millim. Vix specie differt a *nitida*. — Pedrotallegalle, corticola.

8. *Verrucaria mamillana* Ach., *Meth.* p. 120, t. 3, f. 2, *L. U.* p. 279, *Syn.* p. 92. Var. *Santensis* Tuck., Nyl. *Pyrenoc.* p. 45. Sporæ long. 0.014—18, crass. 0.006—7 millim. — Peradenia, corticola.

9. *Verrucaria paramera* Nyl. in *Chall. Exped.* ed. Crombie p. 227. Thallus macula pallida indicatus; apothecia nigra prominula (latit. 0.3 millim.); sporæ incolores aut demum fuscæ, oblongæ seriebus 6—8 biloculares, long. 0.024—40, crass. 0.011—15 millim. Gelatina hymenialis I rosello-tincta.

Accedunt *V. libricola* Féé et *V. interponens* Nyl. *Andam.* p. 20. — Point de Galle, corticola, socia *V. nitidæ*. Peradenia.

10. *Verrucaria denudata* Nyl. *Pyrenoc.* p. 49, *Labuan* p. 14. Thallus albidus tenuissimus; apothecia nigra prominula (latit. 0.25 millim.); sporæ subincoloræ vel dilute nigrescentes, obtuse ellipsoideæ 4-loculares, loculis mediis bi-loculosis, long. 0.014—15, crass. 0.010 millim. — Point de Galle, corticola.

11. *Verrucaria discissa* Nyl. Thallus albidus opacus tenuissimus; apothecia nigra innata (latit. 0.3—0.5 millim.), circumcirca discissa, pyrenio infra incolore; sporæ fuscæ oblongæ transversim 6—8-loculares, long. 0.018—20, crass. 0.006 millim. I gel. hym. non tincta. — Ibidem.

12. *Verrucaria tropica* Ach. *Syn.* p. 9, Nyl. *Pyrenoc.* p. 57. Sporæ incolores 4-loculares, long. 0.021, crass. 0.007 millim. — Peradenia, corticola.

13. *Verrucaria interducta* Nyl. in *Flora* 1866, p. 134. Similis *V. subductæ* Nyl. *N. Gran.* p. 116, sed sporis minoribus, long. 0.032—42, crass. 0.014—18 millim. Sporæ fuscescentes 4-loculares. I gel. hym. vix tincta. — Peradenia, corticola.

14. *Verrucaria catervaria* Féé, Nyl. *Pyrenoc.* p. 52. Confluens cum *Trypethelio pallescente* Féé, Nyl. *I. c.* p. 74. *Verrucaria ochroleuca* Eschw. *Brasil.* p. 137 (1829). Sporæ ellipsoideæ 4-loculares, long. 0.024, crass. 0.008 millim. — Peradenia, corticola.

15. *Verrucaria diluta* Féé, Nyl. *N. Gran.* p. 578. Pyrenia integra nigra, passim thallodeo-suffusa. Sporæ incolores 3-septatæ, long. 0.025—35, crass. 0.008—0.011 millim. — Pedrotallegallé, corticola.

16. *Verrucaria stenobela* Nyl. Thallus macula albida indicatus; apothecia pyrenio dimidiatim nigro (latit. circiter 0.3 millim.); sporæ 8:næ tenuiter aciculares (obsolete vel vix septulatæ) subrectæ, long. 0.070, crass. 0.002 millim., paraphyses graciles. I gel. hym. — (vel. lutescens). — Corticola, accedens ad *V. raphidiophoram* Nyl. *N. Caled.* p. 93, quæ sporas habet non-nihil majores.

17. *Strigula complanata* Mnt., Nyl. *Pyrenoc.* p. 65. — Frequens super folia.

Citetur adhuc *Lepraria flava* Schreb. e Rampodde.

Quæ paginis præcedentibus exponuntur Lichenes spectant a cl. E. Almquist e Ceylonia reportatis, sed adest opus 1869 editum ea vegetabilia tractans titulo:

*The Lichens of Ceylon collected by G. H. K. Thwaites Director of Royal Botanic Garden Peradeniya, Ceylon. Examined and determined by the Rev. W. A. Leighton (plates 36 & 37).*

In hocce opere species plurimæ enumerantur, quæ desunt in collectione Almquistiana, eas tamen afferre non possum, nam de determinationibus auctoris incertus maneo. Thelotreos et Graphideos præsertim haud paucos doleo in enumeratione nostra omitti, regionibus nempe pertinentes ab expeditione Vegæ non visitatis.

Si omnes Lichenum Tribus in enumeratione nostra Ceylonica datæ computantur, invenimus:

Collemei . . . . .	5
Caliciei . . . . .	1
Sphærophorei . . . . .	1
Bæomycetei . . . . .	1
Stereocaulei . . . . .	1
Cladoniei . . . . .	6
Ramalinei . . . . .	1
Usneei . . . . .	1
Parmeliei . . . . .	11
Stictei . . . . .	7
Physciei . . . . .	10
Pyxinei . . . . .	2
Pannarinei . . . . .	2
Lecanorei . . . . .	24
Lecideei . . . . .	18
Pertusariei . . . . .	5
Thelotremei . . . . .	10
Graphidei . . . . .	36
Pyrenocarpei . . . . .	17

Toti Lichenes 159

## Additamentum ad Lichenes Japoniæ.

Lichenibus Japoniæ 1890 editis, postea collectionis Almquistianæ fasciculus prætermissus inventus fuit, unde plurima addenda haurire licuit. Sic Additamentum ortum est, quod nunc offerre hic convenit.

### Trib. 1. — Collemei.

1. *Collema aggregatum* Ach. Thallus membranaceus I —. Sporæ aciculares 9-septatae, long. 0.065—85, crass. 0.0035—45 millim. I gelatina hymenialis cœrulescens. — Simonosaki, corticola.<sup>1)</sup>

### Trib. 2. — Cladoniei.

1. *Cladonia botrytes* var. *exsoluta* Nyl. Minor (latit. circiter 5 millim.) thallo podetiorum pulvereo. — Super corticem pini in Itchigomé. Squamulae subtus pulværeæ. Sporæ long. 0.010—11, crass. 0.0030—35 millim. I gelatina hymenialis dilute cœrulescens.

Memoretur hic *Cl. chlorophæa* var. *lacinians* Nyl. Sporæ long. 0.010—15, crass. 0.003—4 millim. Thallus laciniosus. Podetia K subflavescentia. In California (D:r Hasse).

2. *Cladonia ochrochlora* f. *truncata* Flk. (Coem. Belg. n:o 82) minor, apotheciis pallidis. — Itchigomé, truncicola.

<sup>1)</sup> In California adest *Collema conglomeratum* Hffm. Nyl. Paris. p. 16 insigne saxicola. Ei sporæ fusiformes 1-septatae, long. 0.020, crass. 0.006 millim. Thallus I rubescens,

3. *Cladina sylvatica* Hffm. K (Ca Cl) flavens. — Itchigōmē et Foujiyama, altit. 7500 pedum.

### Trib. 3. — Cetrariei.

1. *Platysma Fahlunense* \* *insolitum* Nyl. — Etiam in Foujiyama in regione fruticum.

### Trib. 4. — Parmeliei.

1. *Parmelia conspersa* (Ehrh.) Ach., Nyl. Japon. p. 29. Medulla K ferrugineo-rubricans.<sup>1)</sup>

### Trib. 5. — Gyrophorei.

1. *Gyrophora tylorrhiza* Nyl. Lapp. or. p. 122 (1866), in Flora 1887, p. 135 (e China, Yunnan, leg. Delavay, sporis long. 0.010—12, crass. 0.006—8 millim.) sit *G. esculenta* Miyoshi in Bot. Centralblatt 1893, japonice dicta *Iwatake* (tamen sporæ nonnihil dissimiles describuntur), et inter escas exquisitas existimata, in commercia admissa. Etiam exportatur. Vidi specimina e foro olitorio japonico sterilia, ubi mercatores hujus Gyrophoræ nomine *Iwatake-tori* designantur. Quoque *Alectoria sulcata* (Lév.) in Japonia edulis, teste Miyoshi, sed minoris momenti quam *Gyrophora*. Similiter *Ramalina calicaris* Hffm., in China Yunnan (Delavay n:o 3133) edulis nomine *Chou-hoatsay*.

### Trib. 6. — Pannarinei.

1. *Pannaria leucosticta* Tuck., Nyl. Syn. II, p. 34. Sporæ long. 0.015—16, crass. 0.009—0.010 millim. Iodo gelatina hymenialis fulvo-rubens (præcedente cœruleo-fulvo). — Itchigōmē, corticola.

Memoretur hic *Heppia leptopholis* Nyl. in Hasse L. Sout. Calif. p. 10. Sporæ globulosæ diam. 0.005 millim. Accedens ad *H. psammophilam* Nyl. in Flora 1878, p. 339. In California terrestris.

<sup>1)</sup> In *Parmelia cetrarioide* Del., Nyl. Japon. p. 26, sicut etiam in *P. olivetorum* Ach., Nyl. thallus superficialiter albo punctatus, quod characterem præstantem earum sistit.

## Trib. 7. — Lecano-Lecidei.

## Subtrib. I. — Lecanorei.

1. *Lecanora phæodes* Nyl. Thallus albidus tenuis rugoso-inæqualis (K —); apothecia lurido-ferruginascentia vel fuscresentia, convexiuscula (latit. circiter 1 millim.), infra obscurata; sporæ placodino-morphæ vel 1-septatæ, long. 0.020—24, crass. 0.010—11 millim., epithecium K violaceo-purpurascens; hypothecium infra fuscum. — Itchigomé, corticola.

Species bene distincta sporis majusculis et hypothecio strato infero obscurato. Variat apotheciis majoribus compositis. Variat etiam margine nigricante.

2. *Lecanora ferruginea* (Huds.) Nyl. *Paris.* p. 48. Thallus albidus rugoso-inæqualis K —; apothecia ferruginea mediocria (latit. 1 millim. vel etiam majora), biatorina (hypothecio cellulis angustatis); sporæ placodino-morphæ vel saepius 1-septatæ, long. 0.012—22, crass. 0.006—9 millim. Dicatur *septella* ob hanc conformationem sporalem. — Itchigomé, super corticem pini ut videtur.<sup>1)</sup>

3. *Lecanora carneo-fusca* Nyl. *Rodrig.* p. 438. Thallus albidus grānuloso-inæqualis K —; apothecia fusca lecanorina mediocria (latit. circiter 0.5 millim.), margine thallino albido subintegro cincta; sporæ placodino-morphæ, long. 0.011—16, crass. 0.006—7 millim. Iodo gelatina hymenialis intensive cœrulescens. — Simonosaki, corticola.<sup>2)</sup>

4. *Lecanora collocarpoides* Nyl. Accedit ad *Lecanoram roboris* Duf., sed thallus albidus rugoso-inæqualis K —. Sporæ fuscae 1-septatæ, long. 0.020—

<sup>1)</sup> Observetur in Cromb. *Br. Lich.* p. 376, 377, singulari errore apud *Lecanoram ferrugineam* et *L. ferruginascentem* dici thallum esse „K purplish“. Ubinam hoc vidit?

Definiatur hic obiter *Pannularia perfurfurea* Nyl., cui thallus fuscus tenuiter furfuraceus effusus; apothecia fusca plana mediocria (latit. 0.5 millim.), margine non prominulo subpallescente; sporæ breviter ellipsoideæ, long. 0.009—0.010, crass. 0.005 millim. I gel. hym. fulvescens. — Muscicola in Scotia, New-Galloway (James Mc Andrew).

<sup>2)</sup> Memoretur hic *Lecanora subpyraceella* Nyl., cui thallus parum visibilis; apothecia subfulva margine aurantiaco (latit. fere 0.25 millim. vel minora), epithecium K purpurascens; sporæ 8:næ oblongæ 1-septatæ vel septo tenui pertuso placodino-morphæ, long. 0.012—17, crass. 0.004—6 millim. Supra terram in California (Dr Hasse), cum *Lecidea subplebeja* et *Lecanora obpallente* Nyl. Minutie convenient cum *Lecanora pyraceella* Nyl. in *Flora* 1877, p. 457, sed sporis aliis longioribus nec ita turgide placodino-morphis; haec in Lapponia graniticola et in Insula Behringii.

Etiam comparanda *L. pellodella* Nyl. in Hasse *Calif.* p. 10, cui thallus olivaceo-obscuratus parum evolutus. Sporæ long. 0.010—11, crass. 0.005—6 millim. Epithecium K purpurascens. — California, graniticola.

25, crass. 0.009—0.013 millim. I gelatina hymenialis intensive cœrulescens.  
— Itchigōmē, corticola.

5. *Lecanora subpariata* Nyl. Thallus albus granulatus, hypothallo nigro impositus, K eximie flavens; apothecia nigra mediocria (latit. 0.7 millim.) vel minora; sporæ fuscæ ellipsoideæ 1-septatæ, long. 0.021—27, crass. 0.010—12 millim. I gelatina hymenialis intensive cœrulescens. — Itchigōmē, super corticem (pini?). E stirpe *L. sophodis* p. 40, ubi addatur ipsam *L. sophodem* etiam occurrere in Simonosaki.

6. *Lecanora chlarotera* Nyl. *Pyr. or.* p. 20, *Brenn. Hogl.* p. 60. — Etiam ad Nagasaki.

7. *Lecanora rugosa* Ach., Nyl. *Japon.* p. 44. — Etiam ad Itchigōmē.

8. *Lecanora atrynea* \* *melacarpa* Nyl. *Japon.* p. 44. Thallus corrugatus. In Japonica sporæ long. 0.012—15, crass. 0.008—9 millim. I gelatina hymenialis cœrulescens, dein fulvescens. Errore hic ducitur l. c. „qualis etiam in maritimis Galliæ occidentalis“, quæ ducenda est ad *campestrem* Schær.

9. *Lecanora achroella* Nyl. *Rodrig.* p. 439. Thallus albidus tenuis sub-granulose continuus K + fl.; apothecia pallidula plana minuta, margine thallino integro cincta (latit. 0.4 millim., vel minora); sporæ ellipsoideæ long. 0.009—0.011, crass. 0.005—6 millim. I gelatina hymenialis cœrulescens, dein fulvescens. — Nagasaki, Hiroshima, corticola. Etiam in insula Rodrigues et in Mozambique.

10. *Lecanora fuscescens* (Smrf.) Nyl. *Scandin.* p. 212, *Flora* 1872, p. 552 not. 1, Cromb. *Br. Lich.* p. 423, Nyl. *Japon.* p. 45. *Lecidea* in Nyl. *Paris Suppl.* p. 6. — Itchigōmē, pinicola.

11. *Lecanora conizæa* (Ach.) Nyl. in *Flora* 1872, p. 249, *Japon.* p. 45. *Paris* p. 61. — Hiroshima, pinicola. Yokohama, Simonosaki.

12. *Lecanora symmictera* Nyl. in *Flora* 1872, p. 249, *Japon.* p. 46. *Lecidea* in Nyl. *Paris* p. 81. I gelatina hymenialis cœrulescens, dein thecis fulvescentibus.

13. *Lecanora atra* (Huds.) Ach., Nyl. *Japon.* p. 47, saxonica. — Itchigōmē, corticola. Thallus K + flavens; sporæ ellipsoideæ simplices, long. 0.015—16, crass. 0.006—7 millim.), paraphyses mediocres discretæ, epithecium obscure violascens (thalamum dilutius violascens, K violascentia lætens tinctoria).

14. *Lecanora tartarea* (L.) Ach., Nyl. *Japon.* p. 47. Thallus et apothecia Ca Cl +. — Etiam in Hiroshima.<sup>1)</sup>

<sup>1)</sup> *Lecanora subolivascens* Nyl. in hb. Hasse hic memoretur. Thallus olivascens placodiiformis adnatus. Apothecia et spermogonia ignota. Thallus K — (Ca Cl —). In California graniticola.

15. *Lecanora glaucomiza* Nyl. Thallus albidus tenuis effusus K + flavens; apothecia albo-pruinosa mediocria (latit. circiter 1 millim.), margine thalino integro; sporæ vermiformes, long. 0.060—0.100, crass. fere 0.005 millim. I gelatina hymenialis cœrulescens. Forsitan nimis affinis est *L. ochrophœæ* Tuck., Nyl. *Japon.* p. 49. Apothecia fusca vel fusco-nigricantia plus minusve pruinosa (vel plus minusve nuda, f. *nudiuscula*). — Itchigomé, corticola.

16. *Lecanora punicea* Ach., Nyl. *N. Caled.* p. 30. Thallus K + flavens. — Nagasaki, corticola.

### Subtrib. II. — Lecideei.

17. *Lecidea aurigera* Fée *Essai* p. 106, t. 28, f. 1, *Suppl.* p. 103, t. 3, f. 5, Nyl. *Port Natal* p. 8, *L. exot.* p. 223. *Lecanora Boninica* Tuck. Sporæ long. 0.014—19, crass. 0.008—0.011 millim. — In ins. „Bonin“ (Wright), corticola.

18. *Lecidea tornoënsis* Nyl. *Scandin.* p. 195, *Japon.* p. 61. Thallus parum evolutus; apothecia nigricantia convexa; sporæ long. 0.020—23, crass. 0.012—16 millim. I gelatina hymenialis cœrulescens, dein fulvo-rubescens (thecæ præsertim tinctæ; sporæ endosporio et exosporio distinctis). — Pinicola atque etiam super alios cortices et lignum, in Itchigomé.

19. *Lecidea meiocarpa* Nyl. in *Flora* 1876, p. 577, *Japon.* p. 61. Sporæ long. 0.009—15, crass. 0.0035—45 millim. I gelatina hymenialis fulvo-rubens. — Itchigomé, corticola.

20. *Lecidea sylvana* Arn. L. 47, Nyl. *Paris* p. 81. Thallus albidus tenuis inæqualis subdispersus. Sporæ long. 0.010—12, crass. 0.003—4 millim. I gelatina hymenialis cœrulescens, dein fulvo-rubens. — Corticola cum priore.

21. *Lecidea longella* Nyl. Thallus cinerascens obsoletus; apothecia nigra

*Lecanora obpallens* Nyl. in hb. Hasse. Thallus pallidus frustulosus adnatus K —; apothecia fusca plana (latit. fere 1 millim. vel minora); thecæ polysporæ, sporæ oblongæ long. 0.0035. I gelatina hymenialis fulvescens. In California supra terram, socia *Lecideæ subplebejæ*. E stirpe *Lecanora cervina*.

*Lecanora gyalectodes* Nyl. Thallus albus tenuis subfarinaceus; apothecia roseo-rubentia prominula urceolata in receptaculis lecanorinis albis latit. 0.5 millim.; sporæ obtuse oblongæ murales, long. 0.020—26, crass. 0.011—14 millim., paraphyses graciles confertæ. I gelatina hymenialis vix tincta. Gonidia diam. 0.008—0.010 millim. — In California supra saxa calcarea montium Santa Monica (Dr. Hasse).

convexa (latit. 0.25 millim.), intus obscura; sporæ elongato-fusiformes 1-septatae, long. 0.015—21, crass. 0.002 millim., paraphyses non discretæ, epithecium incolor, thalamum sordidum, hypothecium non obscuratum. I gelatina hymenialis cœrulescens, dein vinose rubescens. Videtur proxima *Lecideaë globulosæ* Flk., sporis longioribus mox dignota. — Itchigomé, corticola.

22. *Lecidea sphærellifera* Nyl. Thallus albidus tenuis granulosus; apothecia pallida vel variantia obscuriora (latit. 0.5 millim. vel minora), margine thallodeo integro; sporæ 8:næ globulosæ, diam. 0.005—6 millim., epithecium inspersum. I gelatina hymenialis cœrulescens, dein fulvo-rubescens, thecæ præsertim tinctæ. — Corticola. Speciminulum solum visum.

Pertinere videtur ad viciniam *Lecanoræ effusæ* Pers., Nyl. *Scandin.* p. 165, apotheciis margine thallodeo subintegro biatorinis, margine thallodeo in juvenilibus visibili nulla gonidia continente. Hæc corticola *Lecideaë fuscescentem* Smrf. minorem simulat.

23. *Lecidea turgidula* Fr., Nyl. *Scandin.* p. 201, *L. P.* 142, *Paris Suppl.* p. 5. Thallus albidus tenuissimus vel evanescens K —; apothecia nigra planiuscula immarginata (latit. 0.2—0.4 millim.), variantia leviter cæsio-pruinosa, intus albida; sporæ oblongæ simplices long. 0.008—12, crass. 0.0035 millim., paraphyses non discretæ. Pertinet ad stirpem *L. vernalis* vel potius *L. conferenda* Nyl. — Itchigomé, lignicola.

24. *Lecidea symotheoides* Nyl. *Japon.* p. 63. Sporæ long. 0.011—18 millim.

25. *Lecidea afferens* Nyl. *Japon.* p. 65. Sporæ 1-septatae long. 0.011—16, crass. 0.005—7 millim.

26. *Lecidea eupodia* Nyl. Thallus fuligineo-fuscus tenuis furfuraceus; apothecia nigra calicioidea crassiuscula stipitata (latit. 0.5, stipite altit. 0.25 millim.), intus concoloria; sporæ fusiformi-oblongæ 1-septatae, long. 0.016—19, crass. 0.006—7 millim., paraphyses non discretæ, thalamum subfuscō-violascens (epithecium et hypothecium obscurius fusco-violascentia aut fusca (K violascens subvisibilis). I gelatina hymenialis vinose rubens. — Super lignum putridum (abietis?) in Itchigomé. Thallus e sygonidiis globulosis compositus.

Accedit ad *Lecideaë crassipedem* Fr. fil., Nyl. *Lapp. or.* p. 164, quæ omissa fuit in *Lich. Fret. Behring.* p. 47 (in Insula Lawrence lecta a cl. E. Almquist). Habet sporas oblongas simplices vel raro 1-septatas, long. 0.010—14, crass. 0.0035—45 millim., gelatina hymenialis I vinose rubens. Thallus albidus sygonidimiosus, sygonidimiis globulosis radicellos emittentibus. In *Lecidea hypopodia* Nyl. l. c., etiam in Lawrence insula obveniens, similiter sygonidimia adsunt. Quoque omittitur in *L. Freti Behring.* e Lawrence-

insula *L. ramulosa* Fr. fil. cui nulla syngonidimia globulosa. Patet *L. eupodium* affinitatem habere cum *L. crassipede*, licet sporologice ambæ distant.

27. *Lecidea Nægeli* Hepp., Nyl. *Paris* p. 82. Thallus albidus tenuissimus; apothecia pallida aut livida (vel obscuriora); sporæ fusiformi-oblongæ 3-septatæ, long. 0.015—20, crass. 0.005 millim. I gelatina hymenialis cœrulescens, dein obscurata. — Itchigomé, lignicola. Etiam in California (D:r Hasse), Santa Monica Range.

28. *Lecidea baculifera* Nyl. *Japon.* p. 67 (f. *submedians*). Thallus albidus tenuis subleprosus K —, sæpius subdispersus; apothecia pallido-testacea (latit. circiter 0.5 millim.), convexula immarginata; sporæ baculiformes simplices aut 3—7 septatæ, long. 0.030—42, crass. 0.004—6 millim., paraphyses mediocres molles, hypothecium incolor. I gelatina hymenialis fulvourbens. — Itchigomé, corticola, lignicola et muscicola. Forsitan prope *Lecideam medialem* Tuck. disponenda.

29. *Lecidea luteola* (Schrad.)? — Nagasaki. Speciminulum parum evolutum modo visum. Sporæ 5-septatæ, long. 0.046—50, crass. 0.003—4 millim.

30. *Lecidea arceutina* Ach., Nyl. *Paris* p. 85. Thallus cinerascens tenuis; apothecia fusca convexula; sporæ aciculares 9—15-septatulæ, long. 0.060—65, crass. 0.002—3 millim. I gelatina hymenialis cœrulescens, dein rubescens. — Nagasaki, corticola.

31. *Lecidea subvermifera* Nyl. Thallus albidus tenuis continuus K —; apothecia nigra convexa (latit. 0.5 millim.), intus concoloria; sporæ vermiculæ 3—5-septatæ, long. 0.030—40, crass. 0.003 millim., hypothecium nigricans. I thecæ bene cœrulecentes. — Itchigomé, corticola. Epithecum et hypothecium K —.

32. *Lecidea invertens* Nyl. Thallus albidus tenuissimus continuus K leviter flavescens; apothecia rufescens aut nigricantia, plana marginata (latit. circiter 0.3 millim.), intus albida; sporæ vermiformes, septis 9 vel pluribus, long. 0.046—56, crass. 0.0035—0.0045, epithecium fuscescens (K obsolete violascens). I gelatina hymenialis cœrulescens. — Nagasaki, corticola.<sup>1)</sup>

<sup>1)</sup> Memoretur hic *Lecidea populina* Muell. microg. („*Xanthella populina*“). Thallus cinereo-virescens subfurfurosus; apothecia læte flava convexiuscula (latit. 0.3 millim.), intus albida; sporæ oblongo-ellipsoideæ simplices, long. 0.010—11, crass. 0.006 millim., epithecium inspersum K —. I gelatina hymenialis cœrulescens. Ad Fort Collins in Colorado legit Baker (misit Eckfeldt). Est Biatora propriæ stirpis.