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II.—Notulæ Lichenologicæ. No. XIX

Rev. W.A. Leighton B.A. F.L.S.
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joined by a notch and ledge to the second pair of antennæ, and, together with the latter, joined to the eye-margins, whereby a kind of imperfect sucking-cup is formed. In *Caligini*, on the other hand, the basal joint of the first pair of antennæ coalesces with the sucking-cup, now developing a pair of independent small suckers (*Caligus*), and now forming the so-called lamina frontalis. A vestige of the true front plate is, however, sometimes to be observed, namely the scar indicating the place of insertion of the detached organ of fixation.

EXPLANATION OF PLATE I.

Fig. 1. Head of *Sphæroma balticum*, n., from beneath.

Fig. 2 a. Head of *Serolis Orbignyana*, M.-E., from beneath : *o*, sockets of first pair of legs.

Fig. 2 b. Prosternum and sphenoid plate of the same, from beneath, with the lingua and the maxillæ of the first and second pairs on the right side : *o*, sockets of maxillipeds.

Fig. 3. Head of *Cirolana borealis*, Lilljeb., from beneath.

Fig. 4 a. Head of *Æga psora*, L., from beneath.

Fig. 4 b. The maxillipeds of the same in their connexion with other parts : *c*, cardo of maxillipeds ; *s*, stem of ditto ; *p*, palpus of ditto.

Fig. 4 c. Right mandible of the same, seen from the inner side : *s*, the stem ; *m*, the lobe ; *p*, the palp.

Fig. 5. Head of *Anilocra Leachii*, Kr., from beneath.

Fig. 6 a. Head of *Cymothoa œstrum*, E., ♀, from beneath. The maxillipeds are removed and the sucking-orifice distended : *o*, sockets of the maxillipeds.

Fig. 6 b. Right mandible of the same, from the inner side : *s*, stem ; *m*, lobe ; *p*, palpus.

In all the figures, where no other interpretation is given, the following is the signification of the letters :—*f*, forehead ; *a*, antennæ of the first pair ; *a**, antennæ of the second pair ; *c*, clypeus ; *l*, labrum ; *l**, lingua ; *m*, mandibles ; *x*, first pair of maxillæ ; *x**, second pair of maxillæ ; *px*, maxillipeds ; *h*, sphenoid plate ; *s*, prosternum ; *s**, mesosternum.

II.—*Notulæ Lichenologicæ*. No. XIX.

By the Rev. W. A. LEIGHTON, B.A., F.L.S.

As Dr. TH. M. Fries's '*Lichenes Spitzbergenses*' will in all probability be in the hands of few persons in this country, and as there is a possibility that some of his new species may occur in the northernmost portions of Great Britain, we here extract his descriptions of them.

1. *Lecanora coriacea*, Th. M. Fr.

Crusta crassa, contigua, torulosa l. verrucosa, luteo-albida (l. in roseum vergente), subnitida. K imbuta primum fulvescente, dein sanguinea ; apotheciis non visis.

Supra muscos et terram nudam.

Spermogonia numerosa, quorum ostiola nigricantia habitum *Pertusariæ* cujusdam huic tribuunt. Spermatia acicularia, recta, sterigmatibus simplicibus adfixa.

2. *Gyrophora discolor*, Th. M. Fr.

Thallo crasso, rigido, usque ad 2–3 unc. diam. lato, superne costis rugisque elevatis valde inæquali scrobiculatoque, toto areolato-rimuloso l. verruculoso, cinereo, subtus aterrimo, fuligineo-pulverulento (rarius centro l. margine pallidiore); apotheciis elevatis, simplicibus, margine cinctis.

Affinitatem cum *G. anthracina* ostendit, præcipue cum β . *tessellata*. CaCl nunc distinctius, nunc obsoletius stratum gonidiale (vel hujus partes sparsas) rubrefacit, qui color mox disparet. Partes apothecii internæ congenerum similes; sporæ oblongæ. Iodo dilute cærulescit, dein sordide decoloratur.

3. *Lecidea conjungens*, Th. M. Fr.

Thallo bullato-verrucoso, sordide cinereo; apotheciis adnatis, majusculis (magnit. *L. vesicularis*), planis, constanter tenuiter marginatis, demum varie flexuosos auriculatisque, nigris, nudis; hypothecio fusco-nigro; paraphysibus filiformibus, laxè cohærentibus, apice fuligineo-capitatis; sporis in ascis clavatis, 8^{nis}, utrinque obtusis, præterea valde variantibus, nunc oblongis l. ellipsoideis, diblastis, nunc elongatis l. subcylindricis, tetrablastis.

Ad rupes calcareas.

A *L. vesiculari* sporis, paraphysibus &c. differt; a *L. fusispora*, Hepp., thallo, apothecio, paraphysibus &c. Gelatina hymenea præcedente cærulescentia levi vinose rubet.

4. *Lecidea collodea*, Th. M. Fr.

Crusta tenui, subgelatinosa, cinerascens; apotheciis adnatis, cartilagineis, convexis, dein subglobosis l. varie tuberculatis, siccis nigricantibus, humidis obscure cinnamomeis, quasi pellucidis, nitidulis; hypothecio incolorato; paraphysibus concretis, subhyalinis, apice fuscis l. fuscidulis; sporis in ascis anguste clavatis 8^{nis}, oblongis, simplicibus.

Ad saxa.

Apotheciorum insigni habitu facile distincta species. Iodo circa ascos dilute cærulescit, præterea sordide lutescit.

5. *Lecidea pullulans*, Th. M. Fr.

Crusta tenui, rimosa, cinerascens; apotheciis minutissimis, numerosis, primo urceolatis, dein planis leviterque convexis,

marginē tenui demum evanescente, nigris; hypothecio incolorato; paraphysibus apicem versus cærulescente-smaragdulis, filamenta in gelatina copiosa referentibus; sporis in ascis clavatis 8^{nis}, oblongis.

Ad rupes micaceas.

Habitus characteresque cogunt hanc pro distincta habere specie; inter species antea descriptas nullam invenimus, ad quam referri possit. Stratum medullare iodo non vel passim dilutissime violascit, hymenium vero cæruleo tingitur colore.

6. *Lecidea scrobiculata*, Th. M. Fr.

Crusta crassa (usque ad 5 millim.) varie rimosa, verrucis vulgo tenuiter rimulosis, sordide argillacea; apotheciis varie flexuosis tuberculatisque primo planiusculis et marginatis, dein subglobosis immarginatisque; sporis globosis l. globoso-ellipsoideis.

Supra rupes.

Habitu a *L. elata*, Schær. adeo recedit, ut primo obtutu pro distincta specie haberes; accuratius examinatæ nexum perspicere tamen crediderimus cum *L. elata*, ad quam sese habet, ut *L. (Sporostatia) tenuirimata* (quacum mixta occurrit) ad *L. (Sp.) Morionem*. Thalli verrucis elevatis interdum adnascuntur apothecia, ut quasi pedicellata appareant. Partes apothecii internæ cum *L. elatæ* congruunt, præterquam quod sporæ vulgo sunt globosæ. Spermatia acicularia recta l. leviter curvata.

7. *Lecidea impavida*, Th. M. Fr.

Thallo minute verrucoso, nigricante vel obscure badio, subnitido; hypothallo nigro; apotheciis minutis persistenter subplanis et margine elevato cinctis, nigris, nudis; hypothecio obscure fusco; paraphysibus omnino concretis, indistinctis, apice fuscis; ascis inflato-clavatis; sporis 8^{nis}, ellipsoideis l. globoso-ellipsoideis. Gelatina hymenea præcedente cærulescentia levi (circa ascos intensiore) fulvescente.

Ad rupes.

Tam externis quam internis notis facillime distincta species. Apud nos hactenus falso omnino pro *L. Mosigii* habita est. Iodo thallus non tingitur, præterquam quod membranæ gonidiorum plus minus distincte violascunt.

8. *Lecidea associata*, Th. M. Fr.

Parasitica, thallo proprio nullo; apotheciis minutis, primo innatis prorumpentibusque, concavis, dein adpressis, planis,

margine obsoleto l. pertenui, disco ruguloso, atro, nudo; hypothecio incolorato; paraphysibus validiusculis, articulatis, gelatina copiosa imbutis, apice fusciscentibus; sporis in ascis clavato-cylindricis, 8^{nis}, una serie dispositis, breviter ellipsoideis l. subglobosis. Gelatina hymenea iodo vix mutata.

Supra thallum *Lecanoræ tartareæ*.

Statione, apotheciis, ascis sporisque ab omnibus facillime dignota. Ad fungos facillime rejicienda.

9. *Lecidea (Sporostatia) tenuirimata*, Th. M. Fr.

Thallo pallidiore (quam *L. Morio*), ferrugineo- l. flavo-cinereo, protothallo nigro inter areolas distincto; areolis tenuissime rimulosis.

Ad rupes.

Habitu diversissimum atque valde insignem præ se fert, neque dubitarem pro distincta specie eam enuntiare, nisi in ambitu radiante passim adessent areolæ lævigatæ. Nordenskjöld legit specimen has formas aperte jungens. Partes internæ non discrepant.

10. *Lecidea (Buellia) vilis*, Th. M. Fr.

Crusta tenuissima, cinerascens, l. nulla; apotheciis tenuibus, mediocribus, persistenter planis et margine tenui cinctis, nigris, nudis; hypothecio incolorato; paraphysibus capillaribus, conglutinatis, fuligineo-capitatis; sporis in ascis clavatis, 8^{nis}, diblastis, plus minus late ellipsoideis, utrinque obtusis, fusco-nigricantibus.

Ad saxa.

Habitu ignobilis, facile prætervisa. Apotheciis planis, sporis majoribus, hypothecio incolorato a *L. punctata* Flk. var. *stigmatea* diversa; a *L. leptocline*, cui maxime affinis, omnibusque aliis Buelliis nobis cognitis hypothecio diversa. Apothecia nunc sparsa, nunc conferta mutuaque pressione vario modo angulosa. Iodo hymenio addito, primum cærulescit, dein sordide decoloratur, ascis rubentibus; pars eorum superior tamen haud raro cæruleum servat colorem.

11. *Arthonia (Coniangium) excentrica*, Th. M. Fr.

Thallo crasso, e verrucis contexto verruculosus l. farinaceo-dehiscentibus, albo; apotheciis minutis, adnatis, primo orbicularibus leviterque convexis, dein nonnihil angulosis et planiusculis, scabriusculis, nigricantibus; hypothecio rufidulo-fusco; ascis pyriformibus; paraphysibus gelatinoso-confluxis, sordide fuscidulis, apice fuligineis; sporis 8^{nis},

cuneato-oblongis, utrinque obtusis, diblastis, hyalinis. Gelatina hymenea iodo intense rubente.

Supra muscos.

Crusta crassa, quæ re vera non aliena videtur, facile distincta species; apotheciorum interna structura excepto paraphysium colore, cum *A. circinata* Th. Fr. satis congruit.

12. *Verrucaria extrema*, Th. M. Fr.

Crusta crassa, inæquali, rimoso-areolata, areolis e granulis minutis congestis contextis, fuliginea l. obscure fusca l. nigricante; apotheciis semi- l. subliberis, majoribus interdum leviter papillatis l. umbilicatis; perithecio nigro; sporis in ascis subcylindrico-clavatis, 8^{nis}, oblongis l. fusiformibus.

In saxis graniticis.

Optime distincta species, thallum si respicis, *Buelliam conio-pem* sat referens; obiter inspecta *Staurothelen Clopimam* in memoriam quoque revocat. Gonidia parva. In perithecio sub microscopio vulgo observatur magna guttarum oleosarum copia. Iodo gelatina hymenea dilute rubet, sporæ fulvescunt.

13. *Verrucaria rejecta*, Th. M. Fr.

Crusta tenui, effusa, l. maculas minutas formante, inæquali, e verrucis minutissimis contexta, sordide nigricante l. cinereo-fusca; hypothallo sordide cinereo-nigricante; apotheciis minutis, globosis, semiliberis l. adnatis; perithecio nigro; sporis in ascis inflato-clavatis, 8^{nis}, ellipsoideis.

In rupibus calcareis.

Inviti, sane hanc novam speciem, habitu ignobilem, proponimus; frustra autem cum aliqua hactenus nobis cognita conjungere conati sumus. Crusta vulgo formatur ex hypothallo ambitu nonnihil radiante et granulis minutis dispersis, obscurius coloratis; ubi paulo crassior, insuper tenuiter rimosa conspicitur. Gelatina hymenea iodo vinose rubet.

14. *Verrucaria (Arthopyrenia) conspurcans*, Th. M. Fr.

Parasitica, thallo proprio nullo; apotheciis minutis, punctiformibus, adnatis, conico-globosis, atris; ascis ventricosis, paraphysibus gelatinoso-difflaxis; sporis 8^{nis}, cuneatis, utrinque obtusis, diblastis, incoloratis.

Supra squamas *L. (Psoræ) rubiformis*.

Iodo ascorum contentus fulvescit, ceterum non mutatur.