

LICHENS
IN THE HERB. GUNNERUS

BY

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Introduction.

The scientist and philosopher *Johan Ernst Gunnerus* was bishop in Trondhjem (Drontheim) from 1758 to his death in 1773. The extensive travels which his office imposed on him gave him much opportunity to collect natural curiosities. His diocese was large — from Romsdal to the Russian frontier, then a travel of several months, and it was a terra incognita to the naturalist. The enthusiastic bishop also interested many of his clergymen for nature, they collected plants, animals, and minerals, and sent to him.

He thus brought together valuable collections. After his death they were acquired by the «Kongelige Videnskabers Selskab» (The Royal Scientific Society), in Trondhjem (Drontheim), the oldest scientific society in Norway, which was established on his initiative.

Gunnerus embodied the results of his botanical researches in his *Flora Norvegica* I—II. The first part was printed in Trondhjem 1766 (Nidrosia MDCCLXVI), the second part in Kjøbenhavn, according to the title page (Hafnia MDCCLXII) in 1772, but this is evidently not correct,*) it was printed in 1776.

The scientist's object was then to detect and describe the plants and animals found in his district. This task occupied the scientists for a long time. To investigate their distribution and biology was a work that must be left to later generations. *Gunnerus* himself devoted himself to the former problem, his statements of the habitats are not always so accurate as we would like to have them — especially in his herbarium — but they are remarkable for his time.

The lichens are only a small part of his herbarium, and his botanical investigations are not so important as his zoological. Never the less attention should be called to his lichen herbarium also. It contains interesting things and bears a testimony to his comprehensive genius as well as to the difficulties which his isolation laid upon him.

The lichens are here enumerated in the same order as in his *Flora Norvegica*. The arrangement is not systematical, he has first mentioned the plants that first came to his knowledge. — Several plants are now missing in his herbarium.

For biographical information, see *Ove Dahl*: Biskop Gunnerus'

*) «Mindeblade» p. 92.

virksomhed fornemmelig som botaniker & c. in Kgl. Vid. Selsk. Skr., Trondhjem, 1891—93, and a special publication: Johan Ernst Gunnerus. 1718—26. Februar—1918. Mindeblade utgit av det kongelige norske videnskabers selskab. Trondhjem 1918 p. 1—141.

Flora Norvegica.

Nos. CLXXV. *Lichen barbatus*, CLXXVI. *Lichen plicatus* and CLXXVII. *Lichen geographicus* are missing in Herb. Gunn.

CCIII. «*Polytrichum commune*».

A moss, but chiefly lichens: *Cladonia deformis* and *Cladonia coccifera* var. *stematina*.

CCIV. «*Lichen juniperinus* foliaceus, laciniatus, crispus, fulvus, peltis lividis. Linn. fl. sv. 1093. Lichen Dioscoridis & Plinii fecundus. Col. eephr. I. 330,331 cum icone. Hall. helv. 76 n. 70. Lichenoides vulgare sinuosum foliis & scutellis luteis. Dill. musc. t. 24 f. 76.

Norvegis Enermose. Germanis Gelber baummoss. Anglis Common curl'd with yellow leaves and plates.

Habitat in cortice arborum, praesertim in junipero.

Color flavus vel citrinus, quem hic suppeditat, experimentia nostratium, pulchrior evadit, se tingendum alumine ante imbutum in sero lactos coquatur.»

Herb. spec.: *Cetraria juniperina* var. *terrestris*, but the diagnosis «peltis lividis», and «in junipero» also indicates the type. No habitat.

CCVII. «*Lichen parietinus* imbricatus, foliis crispis, fulvis, peltis concoloribus. Linn. fl. sv. 1080. Strøm søndm. I 102. coll. Dill. musc. t. 24 f. 76. Muscus crustae modo arboribus adnascens flavus. Kyll. vir. 102.

Norvegis Gar-mose, Huus-mose. Danis Guulmuus (som voxer paa Træer, som en skorpe). Svecis Wæggmossa.

Habitat in parietibus antiquis ligneis, sepibus &c., satis vulgaris. Manipulum hujus, vel & Lichenis candelarii, cum uno lactis sextario (een Pot) per quadrantem horae sub operculo coquunt Bedstadiensis & cyathum murrhinum (en Thee-kop) decocti proer decolorati mane & vespera contra icterum hauriunt, quod quidem remedium summe laudatur. Eandem efficaciam Sveci Licheni juniperino, plantae istis valde affini, teste v. Linné. Nostrates passim etiam ope Lichenis parietini vestes luteo imbuunt colore.»

Herb. specim. *Xanthoria parietina* from the vicarage Rødø 11. 8. 1770, the mountain above the church («Rødøens Prestegaard d. 11. Aug. 1770; Fjeldet oven for Kirken»).

CCVIII. «*Lichen apthosus* foliaceus repens, lobatus, obtusus, planus, verrucis sparsis, pelta marginali adscendente. Linn. fl. sv. 1098. Strøm søndm. I 102. Lichenoides digitatum laete virens verruculis nigris notatum. Dill. Musc. t. 28 f. 106. Muscus saxatilis

latifolius. Ram. norv. 268 Pharm: Muscus cumatilis. Linn. mater. med. 173 n. 492.

Norvegis Alv-næver v. Alm-næver. Svecis Torskmossa, Torsk-græs &c.

Habitat passim in sylvis; a. 1764 in Dragaasen, & hoc anno 1776, jam d. 1 Martii in monte pone aedes praedii Berg a me lectus. Usus praestat contra erysipel atem (Alygust) apthas (exulcerationes internas oris &c.). & vermes. conf. Linn. aman. acad. II 69.»

Herb. specim. mixtum of 1) *Peltigera aptosa*: two plants, one from Dragaasen in Singasaas, one without habitat, and 2) *Peltigera canina* and *Peltigera rufescens* on the same sheet, without habitat.

CCIX. «*Lichen tartareus* crustaceus ex albido virescens, scutellis flavescens, margine atro. Linn. fl. sv. 1070. Strøm søndm. I 101. . . . leprosus, candidus, scutellis fuscis, margine albo. fl. sv. I 942. Vid. Dill. musc. t. 18, f. 12. Mich. gen. t. 52. fig. ord. 34.

Norvegis Hvidblik, Hvidkork, it. Hvid-steenmose. Svecis Örn-mossa Moss (Byttelet & Borräs-færg). Anglis Mealy tartareous with brown dishes. Dill. musc.

Habitat in montibus, e. g. Houen praedii Berg copiosius autem in Hittern & alibi in maritimis, unde magna copia arcessitur ad tingendum. Modum tingendi nostratium Strömius l. c. Svecorum autem v. Linné in itin. W. G. & Kalm in itin. bahus. 145 describunt. Vide & act. stockh. a. 1745. p. 245. ed. svet. & Linder in arte tingendi.»

Herb. specim.: *Ochrolechia tartarea* with *Xanthoria parietina*, and a *Cladonia* fragment, all of them from Houen near Trondhjem («alle tagne paa Houen»).

CCX. «*Lichen saxatilis* imbricatus, foliolis sinuatis, scabris, lacunosus, scutellis folio concoloribus. Linn. fl. sv. 1075. Strøm søndm. I 102. Vid. Vaill. paris. t. 21. f. 1. Mich. gen. p. 90. ord. 22 n. 1. t. 49. f. 1. Dill. musc. t. 24, f. 83.

Norvegis Steen-mose, Graa vel Blaa-graa Steen-mose, Farve-mose, it. Kork, Kork-mose. Strøm. Aliis Graakork. Anglis Common grey-blew pitted Cork. Dill. musc. Gallis Lichen brodé. Vaill.

Habitat praesertim & copiosissime in rupibus, e. g. in Hittern, unde magna copia quotannis Nidrosiam apportatur. Vestes rusticorum nostratium rafa praesertim hoc, saepe addito *Lichene parietino* vel cortice *Alni*, tinctae sunt. Immo & multo honoratiores jam incepere vestes gerere ex lane indigene nobiliore textas & hoc lichene tinctas.»

Herb. specim.: 4 sheets: 1) and 2) *Parmelia sulcata*, 3) *Parmelia physodes* (adest *P. sulcata*), 4) *Parmelia stenophylla* (= *P. conspersa*), all of them without habitats.

CCXII. «*Lichen jubatus*».

Missing in herb. Gunn.

CCXLI. «*Lichen pyxidatus* scyphifer simplex crenulatus, tuber-

culis fuscis. Linn. fl. sv. 111. Ström. söndm. I 102. *Muscus terrestris calicaris*. Kyll. vir. 104. Vid. Dill. musc. t. 14, f. 6. A. B.

Norvegis Skog-bæger, Sopp-bæger. Anglis Common cup or Chalice.

Habitat, etiam varietas prolifera, passim in sylvis, frequens.»

Herb. specim. 1) *Cladonia coccifera* var. *stematina* (no habitat), 2) One large tuft, composed of *Cladonia cenotea*, *Cladonia gracilis* var. *chordalis*, and *Cladonia pyxidata* var. *chlorophaea*, and traces of other *Cladoniae*. This tuft was collected at Holtaalen vicarage («paa hin Side Elven ved Holtaalen Præstegaard d. 29de Juli 1764»).

CCLXVIII. «*Lichen paschalis* fruticulosus, solidus, tectus foliolis crustaceis. Linn. fl. sv. 1120. Ström. söndm. I 103. Vid. Oeder fl. fasc. III tab. 151. Dill. musc. tab. 17. fig. 33. Mich. gen. 78 n. 20. t. 53, f. 5, 6, 7. Musco fungus coralloides terrestris dense ramificatus cinereus & veluti incrustatus norvegicus. Moris. hist. III 633 f. 15. tab. 7. f. 12.

Norvegis Fastelavns-Riis. Svecis Fastlags-riis. Angl. Coralline Moss (crisp warty alpine) Dill. musc.

Habitat in alpinis; in petris sylvarum & alibi e. g. monte Houen ad sepes praedii Berg. Elegantior, ramis explicitis, lichen.»

Herb. specim. 1) *Stereocaulon paschale*, without habitat, 2) *Stereocaulon denudatum*, from Fjellviken (in Kolvereid?) (Fjeldvigen d. 11 Maji 1767). 3) *Sphaerophorus fragilis*, without habitat.

CCLXIX. «*Lichen rangiferinus* fruticulosus, perforatus, ramosissimus, ramulis nutantibus. Linn. fl. sv. 1117, Ström. söndm. I 103. Vid. Oed. fl. fasc. III t. 180. Dill. musc. tab. 16. f. 29. Mich. gen. 79. tab. 40 f. 1. Tab. hist. 1198.

Norvegis Reens-mose, Rensdyr-mose, Hvid-mose v. Qvit-mose. Danis Greenagtig Mus med røde knoppe. Lapponibus nostratibus ubique Ekalak. Germ. Wild Corallen-Moss. Tab. Angl. Branched coralline Moss.

Habitat in alpinis & alibi. Pabulum tarandorum consuetum. Colligitur & a rusticis in pabulum pecudum hyemale.»

Herb. specim. 1) One sheet with *Cladonia alpestris* from Aalbygfjell in Tyldalen near Tønsset («funden paa Aalbyg-Fjeldet d. 23de Juli 1764»). 2) *Cladonia rangiferina*, without habitat. 3) Only traces of the original plant left (*Peltigera canina*) without habitat.

CCCXVI. «*Lichen nivalis*», CCCLIX. «*Lichen cocciferus*», CCCLX. «*Lichen cornucopioides*», CCCXXI. «*Lichen vulpinus*».

All of them missing in herb. Gunn.

CCCCXXV. «*Lichen islandicus*, foliaceus, adscendens, laciniatus: marginibus elevatis, ciliatis. Linn. fl. sv. 1085, act. stockh. a. 1744 vol. VI p. 219. verf. dan. Dill. musc. t. 28, f. 111, 112. Oed. fl. t. 155, Müll. fr. 212.

Muscus catharticus. Borrich in act. havn. I p. 126.

Pharm. Muscus islandicus.

Dan. & Norv. Islandsk Mose, Hede-græss, Hede-Mose, Fjeld-græss. Svec. Hede-mossa.

Habitat in monte Houen pascuorum praedii Berg ad Nidrosiam, copiosius vero in sylvis acerosis & alpebus nec non norlandiae & finn. montibus e. g. Kjelvig Vestfinn. ad aedes Pastoris. Laevis & saepe nitidus, colore atro, purpureo, rufo, flavescente, dilute cano, pro diversitate aetatis & loci natalis. Differt & laciniis latioribus & angustioribus.

Hinc Islandi pulmentum, plerumque cum lacte, coqvunt vid. act. Barth. & stockh. II. cc. Novissimis temporibus in pharmacopolia introductus est, utpote hecticis salutaris, vid. D. D. Toningii diss. inaug. praeside perill a Linné de rarior. norv. § XIV p. 14».

Herb. specim. 1) 3 sheets with *Cetraria islandica*. 1 of them from Kjelvik, 2) 1 with *Cetraria hiascens* (from Kjelvik), and 3) 1 with *Cetraria tenuissima*, without indication of habitat.

DXXXVIII. «*Lichen pulmonarius*, foliaceus, laciniatus, obtusus, glaber; supra lacunosus, subtus tomentosus. Linn. fl. sv. 1087. Müll. fr. 212. Hill brit. 584. Dill. musc. t. 29 f. 113. S. Paull. fl. 391 n. 9.

Norv. Lunge-næver, Dan. Lunge-urt, Grøn Lunge-urt (som voxer paa træer), Lunge-mose. S. Paull. Kyll. Germ. Baumlungenkraut. Rupp. Angl. Lungwort. Raj. Common Lungwort. Dill. musc. Gall. La pulmonaire de chène. Gou.

Habitat in trunco *Betulae albae* aliarumque arborum haud infrequens. Supra lacunosus, e viridi cinereus, subtus vero albidus vel flavus, tuberculis magnis laevibus, interstitiis tomentosis. Decoctum cum sero lactis laudatur ad scabiem et ulcera. Pulvis etiam, tam interne, quam externe, in variis morbis commendatur. S. Paull. Eum in ictero vim eximiam exseruisse, variae docent observationes. Cum successu etiam a rusticis svecicis, ad tussin pecudum vehementiorem, usurpatur.»

Herb. specim. 1) *Lobaria pulmonaria*, 3 sheets, 2 from Stenkjær and 1 from Tingvoll. 2) *Lobaria scrobiculata*, with *Peltigera aptosa*, from Rødo.

DL. «*Lichen stygius*».

Missing in herb. Gunn.

DLII. «*Lichen pustulatus umbilicatus*, subtus lacunosus, furfure nigro adpersus. Lin. S. N. XII. 712. fl. sv. 1107. lapp. 453. Dill. Musc. t. 30, f. 131. Vaill. bot. paris. t. 20, f. 9.

Norv. Slegg-mosse v. Pimp-mosse. Svec. Tusch-mossa. In rupibus apicis haud infrequens. Prae ceteris ad flavedinem inducendam usurpari potest. Hinc & atramentum sinense, vulgo: Tuschum, praeparatur. (act. stockholm.). Humidus virescens. Linn. mantissa pl. II 507.»

Herb. spec. *Umbilicaria pustulata*, without habitat.

DLIII. «*Lichen prunastris*, foliaceus, erectiusculus, lacunosus, subtus tomentosus, albus. Linn. fl. sv. 1092. Kniph. cent. XII. Müll. fr. 213. Vaill. paris. t. 20 f. 11. 12. Mich. gen. t. 36, f. 3. Dill. musc. t. 21 f. 55.

Norv. Breed-horn, vel, uti Svecis Slaa-mossa, qvia in *Prunis spinosis* frequentissime reperitur.

Habitat in Nidrosiae *Fraxino* D. D. Henrici. Hinc pulvis cyprius praestans ad crines dealbandos confici potest. Fl. sv.»

Herb. specim. *Evernia Prunastris* without habitat.

DLV. «*Lichen velleus*».

Herb. specim. missing.

DLVI. «*Lichen palescens*, crustaceus, albicans, scutellis pallidis. Linn. fl. sv. 1071. Müll. fr. 210. Dill. musc. t. 18 f. 17.

Norv. Bleikmosse. In cortice *Pruni Cerasi* nidrosiae reperta a D. D. Henrici.»

Herb. specim. Only *Ochrolechia parella* (saxicolous), without habitat.

DLVII. «*Lichen caninus*, coriaceus, repens, lobatus, obtusus, planus; subtus venosus, villosus: pelta marginali adscedente. Linn. S. N. XII 712. fl. sv. 1100. lapp. 440. Müll. fr. 213. Vaill. paris. t. 21 f. 16. Dill. musc. t. 27 f. 402. Pharm. Muscus caninus. Linn. mat. med. 491.

Norv. uti Svecis, Hund-mosse. Dalis Miøl-mosse (ob farinam cineream, qva folia tecta sunt.

Habitat in sylvis acerosis, passim, etiam in finmarchia & norlandia, sed ibidem infrequens. Commendatur ad hydrophobiam & rabiem! Linn. mat. med.»

Herb. specim. *Peltigera rufescens*, without habitat.

DLX. «*Lichen subulatus*, fruticulosus, subdichotomus: ramis simplicibus, subulatis. Linn. S. N. XII. 713. fl. sv. 119. lapp. 435. Müll. fr. 201. Dill. Musc. t. 16. f. 26. Tab. hist. 1197 n. II.

Norv. Horn-mossa v. Smallhorn. Germ. Gehörneter Moos. In sylvā dragaasensi daliae nidrosiensis.»

Herb. specim. *Cladonia gracilis* var. *chordalis* — cfr. a. *subulatus* Hag. Wain. Mon. II p. 102. Immixed *Parmelia vittata*. From Holt-aalen vicarage 29. 7. 1764. Specimens from Dragaasen are missing in herb. Gunn.

DLXII. «*Lichen upsaliensis*, crustaceus, foliolis subulatis, striatus. Linn. S. N. XII. 710. sp. pl. II. 1609. fl. sv. 1073.

Norvegis, Upsala-mossa.

Habitat in Roraas, Borchgrevink, saepe Hypnis aliisque Muscis nec non Lichenibus adnatus. Albocinereus, scutellis albis, ramis perplexis.»

Herb. specim. *Ochrolechia*, most probably *upsaliensis*, but sterile, without habitat.

DLXIII. «*Lichen physodes*, imbricatus: laciniis obtusis, subinflatis. Linn. fl. sv. 1081. Müll. fr. 211. Dill. musc. t. 20, f. 49. Mich. gen. t. 50, f. 12.

Norvegis, Blaamossa v. Bjørk-mossa. In truncis Betulae, vulgaris.»

Herb. specim. *Parmelia physodes*, with traces of *P. sulcata*.

DLXVIII. «*Lichen centrifugus*, imbricatus: foliolis multifidis, obsolete laevibus, albidis, centrifugis: scutellis rufo-fuscis. Linn. fl. sv. 1074. lapp. 448. t. 11. f. 2. Müll. fr. 211.

Norvegis, uti Svecis, Vinter-mossa.

Habitat in Løddingen norlandiae, ubi a. 1767 mense jun. ab itineris mei comite Dno. Borchgrewink lectus. Unum exemplar totum niveum erat, absque scutellis; alterum vero hinc inde fuscum, scutellis orbicularibus, confertis, eoque interdum compressis, extus niveis, intus fuscis vel atris.»

Herb. specim. *Parmelia centrifuga*, 1 sheet from Lødingen, one without habitat.

DLXXII. «*Lichen hirtus*, filamentosus, ramosissimus, erectus: tuberculis farinaceis, sparsis. Linn. fl. sv. 1128. Kniph. cent. XII. Müll. fr. 215. Dill. musc. t. 13, f. 12. Tab. hist. 1195 n. 11.

Norv. Busklav. Germ. Æsticht mooss. Tab. Angl. Common small Hairshair without Rundles.

Habitat in ramis arborum et sepibus passim.»

Herb. specim. *Usnea hirta*, without habitat.

DLXXV. «*Lichen ciliaris*, foliaceus, erectiusculus: laciniis linearibus, ciliatis: scutellis pedunculatis, crenatis. Linn. fl. sv. 1083. Müll. fr. 212. Vaill. paris. t. 20, f. 4. Dill. musc. t. 20, f. 45. Moris. hist. III s. 15 t. 7. f. 6.

Norv. & Svec. Haar-mosse.

Habitat in meldaliae sylvis & sepibus rarius. Albidus, hinc virescens, tuberculis minutis, quibus ubique fere supra obsitus est, ciliisque griseus & scutellis, intus saepe caerulescentibus, exceptis. Scutellae pedunculatae, hinc illinc adproximatae, margine crenato &, in minoribus, inflexo. Tubercula autem ista, quae memoravi, vix ac ne vix quidem pro rudimentis scutellarum, ut nonnulli volunt, haberi possunt, quum eadem in pedunculis scutellarum crassis, immo interdum in ipsis scutellis, copiose observentur.»

Herb. specim. *Anaptychia ciliaris*, without station.

DLXXVII. «*Lichen fraxineus*, foliaceus, erectus, oblongus, lanceolatus, sublaciniatus, lacunosus, glaber: scutellis subpedunculatis. Linn. fl. sv. 1091. Kniph. cent. VI. Müll. fr. 212. Tourn. inst. t. 325 f. A. Mich. gen. t. 36. f. 1. Dill. musc. t. 22, f. 59.

Norvegis, uti Svecis, Ask-mossa.

Habitat in Fraxinis haud infrequens. Flavescens.»

Herb. specim. *Ramalina fraxinea*, without station.

DLXXIX. «*Lichen subfuscus*, crustaceus, albicans: scutellis

nigris; junioribus urceolatis. cavis. Linn. S. N. XII. 710. fl. sv. 1072. Müll. fr. 211. Dill. musc. t. 18. f. 16.

Norv. Hatt-mossa.

Habitat in rupibus norlandiae passim. Scutellae juniores orbiculares & saepe urceolatae, adultiores varie figurae, e. gr. compressae, angulatae, speciatim pileiformes: subfuscae, hinc totae, illinc margine albido vel cinereo: confertissimae, adeo ut saepe totum discum occupent. Alia specimina, prioribus cohabitantia, tota qvanta, alba sunt absque omnibus scutellis & tuberculis, eoque pro maribus (misprint for malibus?) habentur.»

Herb. specim. No. 579 has contained three plants all of them without habitat, one designated as «mas» (*Pertusaria scutellata*), two as «femina» (*Physcia pulverulenta allochroa* and one missing plant).

DCLXIII. «*Lichen fragilis*, fruticulosus, solidus: ramulis teretibus, obtusis. Linn. S. N. XII. 713. fl. sv. 1121. lapp. 440. t. 11. f. 4. Dill. musc. t. 17. f. 34. A. B. C.

Norv. Berg-corallin.

Habitat in montibus & petris norlandiae, e. gr. in Evenæs, Lødingen, Hammerøen &c.; ubi mense junio, passim a me visus cum globulis nonnullorum ramorum terminalibus. Refert *Lichen normoricum*, n. 973. Sed fragilior ipsa *Corallina*, cui similis, ut utar verbis perill. a Linné in fl. sv. l. c.»

Herb. specim. *Sphaerophorus fragilis* c. fr., from Evenes (in Ofoten) 9. Jun. 1767.

DCLXXX(X). «*Lichen caperatus*, pallide viridis, rugosus, margine undulatus. Linn. S. N. XII. 711. Müll. fr. 213. Dill. musc. t. 25. f. 97. Moris. hist. III s. 15. t. 7. f. 1.

Norv. Roosmossa.

Habitat in saxis norlandiae.»

Herb. specim. *Dermatocarpon miniatum* var. *complicatum*. Herb. note by Gunnerus: «*Lichen caperatus?* vix. Paa berget ved Rødøens kirke d. 19. Maji 1767. conferatur tamen *Lichen atro-virens*.»

DCLXXX(X)I. «*Lichen farinaceus*, foliaceus, erectus, compressus, ramosus: verrucis marginalibus, farinosis. Linn. S. N. XII. 711. fl. sv. 1089. Müll. fr. 212. Dill. musc. t. 23. f. 63. Vaill. paris. t. 20. f. 14. 15.

Norv. Mjølmosa vel Kantskaaler. Nonnullis Garneermossa. Svec. Mjølmaassa.

Habitat interdum in fraxinis antiqvis.»

Herb. specim. The description indicates *Ramalina farinacea*, but the herb. specim. is *Ramalina scopulorum cuspidata* «paa Rødøefjeld d. 20. Maji 1767.»

DCXCII. «*Lichen polirhyzos*» and DCCXXXV. «*Lichen croceus*.» Missing in herb. Gunn.

DCCXXXVI. «*Lichen deustus*, foliaceus, umbilicatus, undique

laevis. Linn. fl. sv. 1105. lapp. 452. Dill. musc. t. 30, f. 117. Vaill. paris. t. 20. f. 9 a & b. it. tab. 21. f. 14., quarum prima exacte nostrum Lichenem exprimit.

Norv. Svart-kari. Svec. Swed-maassa.

Habitat in alpe paroeciae Gloppen in sundmoria. V. D. Krogh.»

Herb. spec. This interesting plant is not *Gyrophora deusta*, but *Gyrophora fuliginosa* Havaas. No habitat indicated in the herb.

DCCXXXIX. «*Lichen floridus*», DCCLVIII. «*Lichen scriptus*, DCCLXI—XXV: «*Lichen glaucus*, *Lichen aquaticus*, *Lichen resupinatus*, *Lichen venosus*, *Lichen arcticus*, *Lichen proboscideus*, *Lichen polyphyllus*, *Lichen fimbriatus*, *Lichen digitatus*, *Lichen cornutus*, *Lichen deformis*, *Lichen uncialis*, *Lichen lanatus*, *Lichen pubescens*, and *Lichen furfuraceus*.»

All of them missing in the herb. Gunn.

DCCCV. «*Lichen chalybeiformis*», DCCCLXXVI. «*Lichen gelidus*», DCCCXXVII. «*Lichen lacteus*», DCCCCXXXIX. «*Lichen ventosus*», DCCCCXL. «*Lichen ericetorum*», DCCCCXLI. «*Lichen jagineus*» and DCCCCXLII. *Lichen calcareus*.»

All of them missing in the herb. Gunn.

DCCCCLXXIII. «*Lichen normøricus*, surculoso-filamentosus, solidus, ater, subnitidus; ramulis hinc inde obtusis, illinc acutis, filamentis subcapillaceis, fragilibus, ramosissimis, implexis. Vid. tab. II fig. 9, 14.

Norv. Nordmørsmosse. Habitat in rupibus normøriæ passim, mihi a V. D. Hil. Hag. Kjempe (cujus praematuram mortem impensius doleo) missus. Scutellae concolores, partim terminales, tab. II fig. 10. 12. partim axillares, fig. 13. Hunc novem Lichenis speciem esse, ab omnibus speciebus S. N. Linn. satis distinctam, manifestum est.»

Herb. specim. This is the well-known *Cetraria tristis*, some of the specimens mixed with *Parmelia pubescens*. Gunnerus himself designated these two plants as «*Lichen normøricus et parasiticus*» (herb. label), accordingly he did not confuse them. His specimens are slender, and the expression: «filamentis subcapillaceis» is not quite inappropriate; *Parmelia pubescens* has filamenta *capillacea*, not *subcapillacea*.

The name *normøricus* dates from 1773 or most probably from 1776 (vide supra), the name *tristis* from 1778 and *corniculata* from 1777. I think it right to reintroduce Gunnerus' name, and call our plant *Cetraria normørica* (Gunn.) «Coralloides corniculatum, fuci tenuiores facie» Dill. Hist. Musc. p. 118 t. 17 fig. 37 (1741) is a pre-Linnean (1743) name, and its nomenclature not binary.

DCCCCLXXIV. «*Lichen gyrosus*», and MXIX—MXXV. «*Lichen grønländicus*, *Lichen (Koenigii)*, *Lichen Heclae*, *Lichen (lacer)*, *Lichen corneus*, *Lichen exasperatus* and *Lichen (Oederi)*», MLVI.

«*Lichen miniatus*», MLVII. «*Lichen saccatus*», and MLVIII.
«*Lichen horizontalis*».

All these species are missing in herb. Gunn.

There are also some lichens in the herb. Gunn. that have not been utilized for his Flora Norvegica. Some of them have not been determined by *Gunnerus* himself, others have no indication of habitats.

Lichens with habitats are:

From Aalbygfjellet (23. 7. 1764): *Cladonia deformis*

Hammarøy (4. 6. 1767): *Nephroma arcticum*

Lødingen (7. 6. 1767): *Parmelia stygia*

— *pubescens*

— *omphalodes*

Gyrophora erosa

Ochrolechia tartarea

Græsholmen (Trondenes, 9. 6. 1770): *Solorina saccata*

Mornes, Gildeskaal (4. 8. 1770): *Ochrolechia tartarea*

Tyrholm (Denmark?), undated: *Peltigera canina*

Bernsdorf (16. 5. 1772): *Ramalina fraxinea*

Evernia Prunastri

Parmelia sulcata

Anaptychia ciliaris and

Ramalina populina.

The Botanical Museum, Kristiania

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