VIII. *The Lichens of Ceylon collected by G. H. K. THWAITES, Esq., Ph.D., F.R.S., F.L.S.,
Director of Royal Botanic Garden, Peradeniya, Ceylon. Examined and determined
by the Rev. W. A. LEIGHTON, B.A., F.L.S., F.B.S. Edin.*

(Plates XXXVI. & XXXVII.)

Read January 21st, 1869.

I HAVE the honour to lay before the Society the results of the examination of an extensive and important collection of lichens, made with singular skill and judgment by Dr. Thwaites, in the central province and southern portions of the island of Ceylon. The collection is apparently a fairly complete one, although, without doubt, many additions may still be reasonably expected to be made to some of the tribes and genera by future and further researches. As it is, it affords very many lichens hitherto undescribed and new to science. With a very few exceptions, the lichens all grew on the barks of various trees.

Mr. Thwaites (*in litt.* Dec. 13, 1868) says, "The localities here most favourable for lichens are open forests, or the margins of dense forests. Except the *Thelotre mata*, most of which affect the bark of old tree-trunks, the greater number of our epiphytal species grow best upon healthy young trees, whose bark is sometimes quite covered with lichens, adding, I think, greatly to their beauty, and apparently not impairing their health.

"The range of elevation in which *most* of our species of lichens occur, is from little above sea-level to 4000 feet; many ascend much higher, and even to 8000 feet; but at the last-named elevation the number of species is comparatively small."

The epiphyllous lichens, of which a large quantity has been forwarded to me, are as yet unexamined, and I hope to lay them before the Society in a future paper.

The following Table will exhibit a synoptical view of those comprised in this paper:—

Lichinei	Pterygium	1			Pannaria	4
Collemai	{ Leptogium	5			Coccocarpia	2
	{ Collema	1			Erioderma	2
Caliciei	{ Sphinctrina	1			Lecanora	6
	{ Trachylia	1			Urceolaria	1
Sphærophorei	Sphærophoron	1		Lecanorei	Dirina	1
Bæomycei	Bæomyces	1			Pertusaria	9
Cladonie	Cladonia	3			Thelotrema	21
Stereocauli	Stereocaulon	1			Ascidium	7
Roccellei	Roccella	1			Gyrostomum	1
Usnei	Usnea	3			Cænogonium	5
Ramalinei	Ramalina	2		Lecidei	Lecidea	11
Peltigerei	{ Nephromium	1			Graphis	31
	{ Peltigera	1			Helminthocarpon	1
	{ Asteristion	1			Opegrapha	1
	{ Stictina	9		Graphidei	Platygrapha	9
Parmeliei ..	{ Ricasolia	1			Arthonia	4
	{ Parmelia	7			Glyphis	5
	{ Physcia	7			Chiodecton	4
Gyrophorei	Umbilicaria	1			Verrucaria	17
Pyxinei	Pyxine	2		Pyrenocarpei	Endococcus	1
					Trypethelium	5
					Total	199

In the accompanying plates the spores have been all magnified alike, 600 linear.

1. *PTERYGIUM ZEYLANENSE*, Leight., n. sp. : thallus luridus seu pallido-castaneus, opacus, radiatus, centrifugus, laciniis angustis dichotomo-multifidis, adpressis, convexis, grosse longitudinaliter rugulosis, confertis, imbricatis, subtus pallidior, longitudinaliter rugulosus, versus centrum rhizinis densis fusco-nigris conglomeratis; apothecia terminalia, subpedicellata, lecanorina, extus rugosa, disco subconcaviuseculo pallide rufo, margine subincurvo minute granulato, tandem lacerato-diformi; paraphyses graciles, distinctæ; sporæ 8, ellipticæ, incolores; hypothecium pallide fuscum.

Ad saxa super ripas rivulorum, Ambagamowa, Ceylon.

Duplo major quam *P. centrifugum*, Nyl. (Anzi, Lich. Langob. 311 !), atque thallo membranaceo fragili non cartilagineo et firmo. Facie externa *Physciæ* cujusdam, at interna satis diversa. Cellulas paralleles longitudinales paucas exhibet, granulis gonimis uniformiter diffusis pluribus moniliformi-concretis. Gelatina hymenea iodo violaceæ tincta.

Plate XXXVI. fig. 1, sporæ magn. 600.

2. *LEPTOGIUM TREMELLOIDES*, Fr.

Central Province.

3. *L. CALLITHAMNION*, Nyl. Syn. i. 126.

On trunks of palms, Peradeniya.

4. *L. CYANESCENS*, Nyl.

Central Province.

5. *L. SATURNINUM*, Nyl.

Habgalla, 6000 ft. alt.

6. *L. PHYLLOCARPUM* (Pers.), var. *macrocarpum*, Nyl., = Lindig, Lich. N. Gran. 87 ! & 126 !

Central Province, 5000 ft. alt.

7. *COLLEMA NIGRESCENS*, Ach.

Central Province.

8. *SPHINCTRINA MICROCEPHALA*, Nyl.

Peradeniya; rare.

9. *TRACHYLIA LEUCAMPYX*, Tuck., = Wright's Lich. Cubæ, 21 !

Peradeniya.

10. *SPHÆROPHORON AUSTRALE*, Laur.

Central Province, 6000-8000 ft. alt.

11. *BÆOMYCES RUFUS*, Ach.

Neuvara Eliza, 7000 ft. alt.

12. CLADONIA DELICATA, Flk., var. *subsquamosa*, Nyl. (K +, C —.)
Central Province, 5000–8000 ft. alt.
13. C. DIGITATA, Hoffm., var. **macilenta*, Hoffm. (K +, C —.)
Central Province, 6000–8000 ft. alt.
14. C. FLORKEANA, Fr., var. **bacillaris*, Ach. et Auct. (K —, C —.)
Central Province, 6000–8000 ft. alt.
15. STEREOCAULON PASCHALE, Fr.
Central Province, 5000–8000 ft. alt.
16. ROCCELLA MONTAGNEI, Dél.
On trees near sea-coast; exported occasionally.
17. USNEA BARBATA, Fr., varr. *hirta*, *ceratina*, et *dasypoga* (=Fellm. Lich. Lappon. Orient. 49).
Central Province, 5000–8000 ft. alt.
18. RAMALINA SCOPULORUM, Ach.
Central Province.
19. R. ANGULOSA, Laur.
Damboul, 2000–3000 ft. alt.
20. NEPHROMIUM HELVETICUM, Ach.
Ceylon (a very morsel only).
21. PELTIGERA SPURIA, DC.
Central Province, 5000–7000 ft. alt.

ASTERISTION, Leight. nov. gen.

Thallus parum evolutus, solum apothecia recipiens et marginans, albus vel albidus, circa 6-stellato-divisus atque repandus, subtus sordidus, membranaceus, subceraceus, subtiliter pulveraceus; *apothecia* rotundata, sparsa aut confluentia, plana, depressa, adnata, cinnabarina, singula centro thalli stellato-divisi circumjacentis atque marginantis immersa, primum membrana thallina alba (tamen a thallo omnino discreta) tecta, dein disrumpente, irregulariter dilacerata persistente, erecta atque connivente; *sporæ* 8, in ascis, fuscæ, lineari-oblongæ, 3–4- vel 5-septatæ; *paraphyses* distinctæ, confertæ, iodo pallide lutescentes.

22. A. ERUMPENS, Leight.: species unica cognita notisque allatis dignota. *Thallus* erumpens e cortice arboris in quo crescit maxime simillimus Fungo cuidam (e. g. *Æcidio grossulariæ*).

Central Province.

Affinitas cum *Solorina* et præcipue *Solorinella*.

Plate XXXVI. fig. 2, *sporæ* magn. 600.

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23. STICTINA ARGYRACEA, Dél., et var. *intricata*, Dél.

Habgalla.

24. S. FRAGILLIMA (Bab.), var. *subpunctulata*, Nyl., thallo impresso-punctulato.

Central Province, very abundant.

25. S. FULIGINOSA (Ach.).

Habgalla.

26. S. CROCATA (Linn.).

Central Province.

27. S. TOMENTELLA, ?

Habgalla.

28. S. QUERCIZANS (Mich.), var. *peruviana*, Dél.

Habgalla, 5000 ft. alt.

29. S. BOSCHIANA (Mont.).

Central Province.

30. S. CILIARIS (Mont. et v. d. B.).

Central Province.

31. RICASOLIA HERBACEA, D. N.

Central Province, common.

32. PARMELIA PERLATA, Ach. (K +, C +.)

Central Province.

33. P. PERLATA, Ach., var. *ciliata*, DC. (K +, C +.)

Central Province.

34. P. CRINITA, Ach. (K +, C +.)

On top branches of old tamarind-trees, Peradeniya.

35. P. REVOLUTA (Flk.). (K yellow, C red.)

Central Province.

36. P. LÆVIGATA, Ach. (K +.)

Central Province.

37. P. LÆVIGATA, Ach., var. *cervicornis*, Tuck.

Central Province.

38. *PARMELIA KAMTSCHADALIS*, Eschw., var. *Americana*, Mont.

Central Province, 6000-8000 feet alt.

39. *PHYSCIA FLAVICANS*, D.C., sterile.

Central Province.

40. *P. LEUCOMELA*, Mich.

Central Province, on steep banks, 5000-7000 feet alt.

41. *P. SPECIOSA*, Fr.

Central Province, very abundant.

42. *P. SPECIOSA*, Fr. var. *hypoleuca*, Ach.

Central Province.

43. *P. STELLARIS*, Fr.

Central Province.

44. *P. PICTA* (Sw.).

Common in Ceylon.

45. *P. BARBIFERA*, Nyl.

Central Province, 5000-8000 feet alt.

46. *UMBILICARIA VELLEA* (Linn.), sterile.

Central Province.

47. *PYXINE MEISNERII*, Tuck.

Habgalla, 5000 feet ; Peradeniya.

Hypothecium fuscum crassum ; paraphyses distinctæ iodo violaceæ tinctæ ; sporæ 8, fusæ.

Plate XXXVII. fig. 107.

48. *P. COCCIFERA* (Fée), sterile.

On trunks of cocoa-nut-trees, Peradeniya.

49. *PANNARIA LEIOSTROMA*, Nyl.

Central Province, abundant.

Plate XXXVI. fig. 3, sporæ magn. 600.

50. *P. RUBIGINOSA*, Dél.

Ceylon.

51. *P. NIGRO-CINCTA*, Mont.

Dolosbagey.

52. *P. PHOLIDOTA*, Mont.

Central Province.

53. COCCOCARPIA PARMELIOIDES (Hook., Mont.).

Central Province.

54. C. SMARAGDULA (Hook., Mont.).

Habgalla, 5000 ft. alt.

55. ERIODERMA POLYCARPUM, Fée.

Central Province, 5000-7000 ft. alt.

56. E. UNGUIGERUM, Bor.

Ceylon.

57. LECANORA TARTAREA, Ach., corticola.

Central Province.

58. L. SUBFUSCA, Ach., states (K + .)

Central Province.

59. L. ANGULOSA, Ach., forma *chlarona*, Ach. (K + .)

Central Province.

60. L. VARIA, Ach. (K + .)

Central Province.

61. L. ATRA, Ach.

Central Province.

62. L. PUNICEA, Ach.

Central Province, not uncommon.

63. URCEOLARIA SCRUPOSA, Ach.

Central Province.

64. DIRINA CERATONIA, Fr.

Peradeniya.

65. PERTUSARIA CUCURBITULA, Mont. (K + , C + .)

Central Province.

66. P. PAPILLULATA, Nyl. (K yellow, then orange-red.)

Central Province.

67. P. VERRUCOSA, Fée. (K + , C + .)

Central Province.

68. P. ALBIDELLA, Nyl. (K - C -.)

Peradeniya.

Sporæ 2, granulis sphæricis repletæ.

69. *P. LEIOPLACA*, Schær. (K — , C — .)

Central Province.

Sporæ 3.

70. *P. LEIOPLACELLA*, Nyl. (K — , C — .)

Central Province.

Sporæ 8.

71. *P. CRYPTOCARPA*, Nyl. (K — , C — .)

Ceylon.

Sporæ 4.

72. *P. VELATA*, Turn. (K — , C red.)

On cocoa-nut-trees, Peradeniya.

Spora 1.

73. *P. QUASSLÆ*, Fée. (Disk of apothecium K yellow, then orange-red.)

South of island.

Sporæ 2.

74. *THELOTREMA GLAUDESCENS*, Nyl., = Wright's Lich. Cubæ, 151 !, 152 !

Habgalla.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, fusæ ; hypothecium nullum.

Plate XXXVII. fig. 104.

75. *T. LEPTOPORUM*, Nyl., = Wright's Lich. Cubæ, 128 !

Paraphyses curtæ, iodo lutescentes ; sporæ 8, incolores, iodo cærulescentes.

Plate XXXVII. fig. 103.

76. *T. MICROPORUM*, Mont.

South of island.

Paraphyses confertæ, distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo cærulescentes ; hypothecium pallidum.

Plate XXXVII. fig. 102.

77. *T. SPHINCTRINELLUM*, Nyl.

N. Eliya, 7000 ft. alt.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo fuscescentes.

Plate XXXVII. fig. 101.

78. *T. PLATYSTOMUM*, Mont.

South of island.

Paraphyses vix distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo violaceæ tinctæ.

Plate XXXVII. fig. 100.

79. *T. CONCRETUM*, Fée, = Lindig, Lich. Nov. Gran. 59 !

Habgalla.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo cærulescentes ; hypothecium pallidum.

Plate XXXVII. fig. 99.

80. *T. CALVESCENS*, Fée.

Habgalla.

Paraphyses distinctæ, graciles, iodo lutescentes ; sporæ 8, incolores, iodo cærulescentes.

Plate XXXVII. fig. 98.

81. *T. OLIVACEUM*, Mont.

Central Province.

Paraphyses distinctæ, iodo non tinctæ ; sporæ 8, incolores, iodo cærulescentes.

Plate XXXVII. fig. 97.

82. *T. GLAUCOPALLENS*, Nyl.

Central Province.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo non tinctæ.

Plate XXXVII. fig. 96.

83. *T. COMPUNCTUM*, Sm.

Central Province ; Habgalla.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, incolores vel fuscесcentes, iodo luteo-fuscесcentes.

Plate XXXVII. fig. 95.

84. *T. AUBERIANUM*, Mont.

South of the island.

Paraphyses distinctæ, iodo non tinctæ ; sporæ 4, fuscесcentes.

Plate XXXVII. fig. 94.

85. *T. PUNCTULATUM*, Nyl. L. Exot. 222.

Ceylon.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo cærulescentes.

Plate XXXVII. fig. 93.

86. *T. PHÆOSPORUM*, Nyl.

Central Province.

Paraphyses distinctæ, iodo non tinctæ ; sporæ 8, fuscæ.

Plate XXXVII. fig. 92.

87. *T. MYRIOTREMA*, Nyl. (*Th. album*, Fée, = Wright, Lich. Cubæ, 127 !).

Central Province.

Paraphyses distinctæ, iodo lutescentes ; sporæ 8, incolores, iodo cærulescentes ; hypothecium fuscum.

Plate XXXVII. fig. 91.

88. *T. CAVATUM*, Nyl., var. *confertum*, Nyl.

South of the Island.

Paraphyses distinctæ, iodo lutescentes; sporæ 8, incolores, iodo cærulee obscuratæ; hypothecium nigrum carbonaceum.

Plate XXXVII. fig. 90.

89. *T. SUBCONCRETUM*, Leight., n. sp.: thallus albido-glauescens, cartilagineus, crassissimus, irregulariter effusus, lævigatus, minute albido-granulato-innato-punctatus; apothecia sparsa, parum prominentia, immersa, ostiolo minuto perforato aperto, margine thallino crassiusculo tumido, margine proprio integro crassiusculo tumido concreto; discus planus, fuscus; sporæ 8, oblongæ, primo incolores, 1-septatæ, cellulis irregulariter nucleolatis, tandem nigro-fuscæ, septo cellulisque obscuratis, iodo non tinctæ.

Central Province.

Paraphyses distinctæ, iodo leviter lutescentes.

Plate XXXVI. fig. 4.

90. *T. PAPILLATUM*, Leight., n. sp.: thallus pallide lutescens, lævigatus, tenuis, subnitidus; apothecia minuta, parum fusco-papillata, ostiolo minutissimo punctiformi, aperto, margine thallino crassiusculo pallide-fusco integro, margine proprio albido-farinoso convergente; sporæ 8?, incolores, elongato-oblongæ aut ellipsoideæ, 6-8-cellulosæ, mediocres, iodo violaceæ aut fusce tinctæ.

Central Province.

Paraphyses confertæ, distinctæ, iodo non tinctæ.

Plate XXXVI. fig. 5.

91. *T. EXANTHISMOCARPUM*, Leight., n. sp.: thallus albido-fuscescens, irregularis; apothecia prominentia, plano-depressa, albo-pulverulenta, maxime dilatato-aperta, margine thallino erecto crasso irregulariter granulato-lacerato furfuraceo vel pulverulento, margine proprio a thallino omnino libero atque discreto ceraceo connivente, radiato-lacerato aperto; discus planus aut subconcavus, albo-glaucopruinosus; sporæ 8, maximæ, cylindrico-fusiformes, incolores, multi(27)-cellulosæ, iodo violaceæ tinctæ.

Central Province.

Species maxime singularis et nullis aliis speciebus cognitis confundenda. Perithecium thallinum iodo cærulescens at non proprium. Perithecium thallinum primo clausum, deinde stellatim lacero-dehiscens persistens. Paraphyses distinctæ, iodo lutescentes.

Plate XXXVI. fig. 6.

92. *T. ELACHISTOTERON*, Leight., n. sp.: thallus pallide lutescens, minute granulato-rugosus, subnitidus, margine nigricante irregulari limitatus; apothecia minutissima, prominentiis granularibus immersa, ostiolis minutissimis numerosis apertis, margine thallino crassiusculo elevato albido, margine proprio albido membranaceo promi-

nente; sporæ 2, pallide virescentes, magnæ, elongato-ellipticæ, apice altero subatenuatæ, murali-divisæ, iodo non tinctæ.

Central Province.

Paraphyses distinctæ, graciles, iodo non tinctæ.

Plate XXXVI. fig. 7.

93. *T. DISCIFORME*, Leight., n. sp.: thallus albido-glauescens, tenuis, lævigatus, subnitidus; apothecia urceolato-scutelliformia, verrucis sparsis orbicularibus hæmisphæricis lævigatis, ostiolo magno dilatato-aperto, margine thallino crassiusculo elevato subceraceo pallide fulvescente integro, margine proprio tenui elevato albo erecto; discus planus, dilatatus, niger, albo-pruinosis; sporæ 2 aut 4, incolores aut pallide virescentes, cylindrico-ellipticæ, apice utroque attenuatæ, murali-divisæ (seriebus transversis 24 cellulis 3, 2, aut 1, in quavis serie) iodo non tinctæ.

Central Province.

Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVI. fig. 8.

94. *T. ALBIDIFORME*, Leight., n. sp.: thallus lutescens, tenuis, opacus, rugosus, verrucis sparsis orbicularibus turgescens subdepressis, ostiolo mediocri aperto, margine thallino crassiusculo subceraceo subalbido-pruinoso, margine proprio discreto integro albo-farinoso incurvato subpruinoso; spore 8, incolores, maximæ, cylindrico-fusiformes, multi(21)-cellulosæ, iodo cærulescentes.

Central Province.

Paraphyses distinctæ, graciles, iodo lutescentes.

Plate XXXVI. fig. 9.

95. *ASCIDIUM DEPRESSUM*, Nyl.

Central Province.

Paraphyses distinctæ, iodo non tinctæ; sporæ 1 vel 2, pallide virentes, iodo leviter cærulescentes.

Plate XXXVII. fig. 87.

96. *A. PERTUSARLEFORME*, Leight., n. sp.: thallus sordide cinerascens, tartareus, crassus, rugulosus, sparsim granulatus, hinc inde rimoso-areolatus; apothecia in protuberantiis thallinis majusculis inæqualibus discretis depresso-umbilicatis, margine crassissimo turgido granulato-inæquali, ostiolo minuto infundibuliformiter perforato obsolete marginato; sporæ 1 vel 2, maximæ, incolores, elongato-cylindricæ, apice utroque rotundatæ, 11-12-septatæ, iodo cærulescentes.

Central Province.

Facie externa generaliter simillima *Pertusaria fallaci*. Peritheciis dimidiatis, fuscis, basi deficientibus.

Paraphyses graciles, distinctæ, iodo leviter lutescentes. Thallus hydrate kalico ochraceo tinctus.

Plate XXXVI. fig. 10.

97. *A. THELOTREMOIDES*, Leight., n. sp.: thallus albido-glauescens, concretus, effusus, lævigatus, opacus; apothecia in protuberantiis thallinis leviter elevatis parvis

depresso-umbilicatis discretis⁶ vel subconfluentibus immersa, margine crasso tumido lævigato, ostiolo mediocri acute marginato; sporæ 8, incolores, oblongo-ellipticæ, 8-9-cellulosæ, cellulis centralibus binucleolatis, iodo cærulescentes.

Central Province.

Facie externa generaliter simillima *Thelotrema concreto*. Perithecium dimidiatum, fuscum, basi deficiens. Paraphyses graciles, distinctæ, iodo non tinctæ. Thallus hydrate kalico ochracee tinctus.

Plate XXXVI. fig. 11.

98. *A. PUNCTULATUM*, Leight., n. sp.: thallus sordide olivaceus, verrucoso-rugulosus, rimulosus, opacus, effusus; apothecia in protuberantiis thallinis parvis confertis valde depressis immersa, margine tumido lævigato, ostiolo magno aperto tenui vel obsolete marginato; sporæ 8, mediocres, incolores, oblongæ, 6-cellulosæ, iodo cærulee fuscatae.

Central Province.

Paraphyses distinctæ, iodo non tinctæ. Species insignis, non aliis facile confundenda.

Plate XXXVI. fig. 12.

99. *A. PACHYSTOMUM*, Leight., n. sp.: thallus olivaceus, tenuis, minute verrucoso-granulosus; apothecia in protuberantiis thallinis mediocribus sparsis depresso-hemisphæricis lævigatis, ostiolo mediocri rotundato-perforato crasso atque valde prominente margine circumcincto; spora 1, incolor, fusiformi-cylindracea, apicibus subattenuata, irregulariter et tenuiter subseptata, nebuloza, minutissimis murali-divisionibus, iodo cærulescens.

Ad cortices, south of the island.

Perithecium dimidiatum, nigrum, basi deficiens. Paraphyses distinctæ, gracillimæ, longissimæ, iodo non tinctæ.

Plate XXXVII. fig. 29.

100. *A. GRANULOSUM*, Leight., n. sp.: thallus sordide olivaceus, vix crassus, minute verrucoso-granulosus; apothecia in protuberantiis thallinis minutis sparsis numerosissimis conico-hemisphæricis lævigatis, ostiolo minuto perforato margine tenuissimo circumcincto; spora 1, incolor, maxima, oblongo-cylindracea, 17-septata, iodo cærulescens.

Ad cortices, south of the island.

Perithecium dimidiatum, fuscum, basi deficiens. Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVII. fig. 30.

101. *A. CHONESTOMUM*, Leight., n. sp.: thallus fusco-olivaceus, tenuis, rugulosus, minute verrucoso-granulosus; apothecia in protuberantiis thallinis mediocribus sparsis conico-hemisphæricis subdepressis lævigatis; ostiolum magnum, infundibuliforme, apertum, fundo nudans perithecii ostiolum nigrum minutum tenuiter marginatum; sporæ 8, incolores, elongato-oblongæ 5-cellulosæ, iodo cærulescentes.

Ad cortices, south of the island.

Perithecium dimidiatum, infra deficiens, subcarbonaceum. Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVII. fig. 31.

102. *GYROSTOMUM SCYPHULIFERUM*, Fée=Wright, Lich. Cubæ, 166!

Peradeniya.

Paraphyses distinctæ, iodo non tinctæ; sporæ 8, incolores, iodo fuscæ.

Plate XXXVII. fig. 106.

103. *CÆNOGONIUM IMPLEXUM*, Nyl.

Ceylon.

104. *C. LEPRIEURII* (Mont.)

105. *C. RETISTRIATUM*, Leight., n. sp.: filamentis thallinis breviarticulatis ramosis interplexis; elementa obducentia retistriata; sporæ 8, ellipsoideæ, incolores, 1-septatæ.

Ceylon, ad truncos et ramulos arborum.

106. *C. CORRUGATUM*, Leight., n. sp.: filamentis thallinis gracilibus ramosis interplexis indistincte articulatis; elementa obducentia grosse corrugata; apothecia non visa.

Central Province, ad terram et saxa.

107. *C. CANCELLATUM*, Leight., n. sp.: filamentis thallinis crassiusculis brevibus, simplicibus vel sparsim ramosis, apicibus glomerato-globosis, articulationibus brevibus; elementa obducentia minute cancellata; apothecia non visa.

Nuwara Eliya, Central Province, ad truncos et ramulos arborum.

The above three novæ species all belong to the section of the genus "thallo adnato, pannose expanso."

108. *LECIDEA LUTEA*, Schær.

Central Province.

109. *L. PARVIFOLIA*, Pers.

Central Province, 5000-7000 ft. alt.

110. *L. PARVIFOLIA*, Pers., var. *corallina*, Tuck.

Central Province.

111. *L. PIPERIS*, Spr.

Habgalla, Central Province, 5000 ft. alt.

112. *L. VERNALIS*, Ach.

Peradeniya.

113. *L. ANOMALA*, Fr.

Central Province, abundant.

114. *L. FUSCELLA*, Fr.

Habgalla, 5000 ft., Peradeniya.

115. *L. DOMINGENSIS* (Pers.), Nyl.=Wright, Lich. Cubæ, 231!

Habgalla, 5000 ft.

Paraphyses distinctæ, graciles, iodo non tinctæ; sporæ 2 vel 3, incolores, cellulis sæpe nucleolatis, iodo lutescentes; asci iodo cærulescentes.

Plate XXXVII. fig. 105.

116. *L. LEUCOXANTHA*, Spr.

Habgalla, Central Province, 5000 ft. alt.

Paraphyses graciles, distinctæ; thecæ iodo cærulescentes; spora 1, incolor.

Plate XXXVII. fig. 108.

117. *L. DISCIFORMIS*, Fr.

Peradeniya, common.

118. *L. MEGASPORA*, Leight., n. sp.: thallus albido-lutescens vel albido-virescens, rugulosus, granulosus, lævigatus, nigro limitatus; apothecia maxima, sessilia; discus planus, dilatatus, rufus, margine crasso integro erecto nigro circumcinctus; hypothecium nigro-fuscum; sporæ 2, maximæ, incolores, cylindræco-oblongæ, 1-septatæ, subincurvatæ, cellulis repletis granulis hyalinis sphaericis; paraphyses graciles, confertæ, granulis interspersis; gelatina hymenea iodo vinose fusca.

Habgalla, 5000 ft. alt.

Proxime affinis *L. marginiflexa*, Tayl., at dignota apotheciorum colore, sporis duplo majoribus atque chemica reactione diversa; *marginiflexa* iodo violacee tincta.

Plate XXXVI. fig. 13.

119. *GRAPHIS ANGUILLIFORMIS*, Tayl.

South of the island.

Paraphyses distinctæ, graciles, iodo non tinctæ; sporæ 8, incolores, iodo cærulescentes; hypothecium integrum, nigrum, carbonaceum.

Plate XXXVII. fig. 82.

120. *G. GLYPHIZA*, Nyl.

South of the island.

Paraphyses distinctæ; sporæ 8, incolores vel leviter fuscescentes, iodo non tinctæ; hypothecium integrum, nigro-fuscum.

Plate XXXVII. fig. 83.

121. *G. LEIOGRAMMA*, Nyl.

South of the island.

Paraphyses distinctæ; sporæ 8, incolores vel leviter fuscescentes, iodo lutescentes; hypothecium vix ullum, tantum discoloratio pallido-fusca.

Plate XXXVII. fig. 84.

122. *G. CONTEXTA*, Pers.

Peradeniya.

Paraphyses distinctæ, iodo non tinctæ; sporæ 8, incolores, iodo fuscæ; hypothecium nullum aut tantum pallidissime fuscum, cartilagineum.

Plate XXXVI. figg. 80 et 81.

123. *G. GRACILIS* (Eschw.), Fée, Ess. t. 11. f. 5.

Kandy.

Paraphyses distinctæ, iodo non tinctæ; sporæ incolores, iodo non tinctæ; hypothecium nullum.

Plate XXXVI. fig. 79.

124. *G. SCRIPTA*, Ach., var. *subvirginea*, Nyl.

Central Province.

125. *G. SCRIPTA*, Ach., Nyl. Scand. 252.

Central Province.

126. *G. SCRIPTA*, Ach., var. *pulverulenta* (Pers.), Nyl. Scand. 252.

Central Province.

127. *G. SCRIPTA*, Ach., var. *serpentina* (Ach.), Nyl. Scand. 252.

Central Province.

128. *G. NIGRO-GLAUCA*, Leight., n. sp.: thallus pallido-lutescens, tenuis, subcrustaceus, opacus, subpulverulentus, effusus; lirellæ mediocres, emergentes, fere sessiles, plus minusve thallo lateraliter obtectæ aut potius albido-pruinosa, simplices, rectæ, vix flexuosæ, utroque apice acute attenuatæ; proprio margine turgescens, suberecto; epithecio rimiformi clauso, deinde hiascente atque glauco-pruinoso; hypothecio carbonaceo, integro; sporæ 8, incolores, mediocres, elongato-ellipticæ, 10-cellulosæ, iodo cæruleæ fuscæ.

Central Province.

Paraphyses distinctæ, iodo non tinctæ. Facie externa maxime affinis *G. subvirginea*, Nyl. (Leight., Lich. Amaz. Linn. Trans. xv. p. 452), at notis allatis dignota, tamen dubitandum si non sit potius hujus varietas sporis latioribus varians.

Plate XXXVI. fig. 14.

129. *G. CONNATA* (Eschw.).

Ceylon.

130. *G. INTRICATA*, Eschw. (Fée, Ess. t. 9. f. 3).

Central Province.

Plate XXXVII. fig. 85.

131. *G. CONGLOMERATA*, Fée (Ess. t. 13. f. 1).

Central Province.

Paraphyses distinctæ, granulosa, iodo lutescentes; spora 1, pallide virens, tandem fusca, iodo obscure cærulescens; hypothecium laterale, tenue.

Plate XXXVII. fig. 89.

132. *G. HETEROCARPA*, Fée.

Central Province.

Paraphyses confertæ, indistinctæ, minute granulosa, iodo non tinctæ; spora 1, pallide virens, iodo fusca; hypothecium crassum, laterale.

Plate XXXVII. fig. 88.

133. *G. STRIATULA*, Ach.

Central Province.

Paraphyses distinctæ, iodo non tinctæ; sporæ 8, incolores, iodo cærulescentes.

Plate XXXVII. fig. 86.

134. *G. SUBSTRIATULA*, Nyl.

Central Province.

Paraphyses distinctæ, iodo non tinctæ; sporæ 2-3-4-6, incolores, iodo cærulescentes; hypothecium laterale.

Plate XXXVI. fig. 78.

135. *G. AFZELII*, Ach.

Central Province and south of the island.

Paraphyses distinctæ, iodo non tinctæ; sporæ 8, incolores, 2-4-cellulosa, iodo lutescentes; hypothecium crassum, carbonaceum, laterale, basi deficiens.

Plate XXXVII. figs. 76 & 77.

136. *G. POITÆI*, Fée.

Central Province, Peradeniya, and south of the island.

Paraphyses distinctæ, iodo non tinctæ; spora 1, incolor, iodo cærulescens; hypothecium tenue, laterale.

Plate XXXVII. fig. 86*.

137. *G. INTRICANS*, Nyl.=Lindig, N. Gran. 53!

Central Province.

Paraphyses distinctæ, iodo lutescentes; sporæ 8, fuscæ, 4-6-cellulosa; hypothecium laterale, tenue.

Plate XXXVII. fig. 75.

138. *G. DIVIDENS*, Nyl.

Central Province.

Paraphyses distinctæ, iodo lutescentes; sporæ 8, incolores, iodo cærulescentes; hypothecium laterale, incurvatum, crassum.

Plate XXXVII. fig. 74.

139. *G. TRICOSA*, Ach.

Central Province.

Paraphyses confertæ, indistinctæ, granulosæ; sporæ 8, leviter fuscescentes, iodo luteo-fuscescentes.

Plate XXXVII. fig. 74 *bis*.140. *G. BALBISII*, Fée.

Central Province.

Paraphyses confertæ, graciles, distinctæ, iodo non tinctæ; sporæ 8, pallide luteæ, iodo cærulee fusce.

Plate XXXVII. fig. 73.

141. *G. COLUBROSA*, Nyl.

Tropical, south of the island.

Paraphyses confertæ, indistinctæ, granulis interspersis, iodo non tinctæ; sporæ 8, incolores, iodo cærulescentes; hypothecium fuscum, laterale, basi deficiens.

Plate XXXVI. fig. 72.

142. *G. DIMORPHODES*, Nyl. MS., n. sp.: thallus galactino-albidus, glaucescens, crustaceus, dilatatus, lævigatus vel rimoso-areolatus, nitidus, linea tenuissima nigro-fusca limitatus; lirellæ sessiles, concolores, margine thallino turgescente omnino obtectæ, maxime dendriticæ vel pluries radiato-divisæ, valde elongatæ, flexuosæ, undulatæ atque intricatæ, angustatæ, apicibus obtusis, intus incolores; epithecium primo rimiforme clausum, dein apertum planiusculum vel concaviusculum carneo-rufum; hypothecium incolor, inconspicuum, basi pallide fuscis gonidiis; sporæ 8, incolores, parvæ, ovaes, 4-cellulosæ, cellulis aliquando binucleolatis iodo cærulescentes.

Central Province.

Paraphyses distinctæ, iodo lutescentes. Ad stirpem *Medusularum* pertinens.

Plate XXXVI. fig. 15.

143. *G. CÆSIO-RADIANS*, Leight., n. sp.: thallus sordide pallido-lutescens, tenuis, subcrustaceus, opacus, subpulverulentus, effusus; lirellæ emergentes, depresso-innatæ, thallo lateraliter obtectæ, albo-pruinosa, stellato-radiatæ atque intricatæ, ramis rectis aut subundulatis, simplicibus aut bi- vel trifurcatis, apicibus acute attenuatis; margine thallino subtumido albo-pulverulento, erecto, ætate oblitterato; epithecio rimiformi, plus minusve aperto, deinde hiascente, cæsio-pruinoso, ætate maxime dilatato, cæsio-suffuso, plano, marginem thallinum oblitterante; hypothecium laterale basi deficiens; sporæ 8, incolores, deinde fusce, oblongæ, 7-8-cellulosæ, cellulis binucleolatis iodo cærulee fusce.

Central Province.

Ad stirpem *dendriticæ* pertinens. Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVI. fig. 16.

144. *G. NEMATOIDES*, Leight., n. sp.: thallus fuscus, purpureus, tenuis, inæqualis, evanescens; lirellæ albo-pulverulentæ, graciles, sessiles, longitudinaliter subparallelæ, lineares, apicibus attenuatæ, simplices aut subradiato-conglomeratæ, divaricato-

ramosæ vel tantum apicibus breviter furcatæ, flexuosæ, undulatæ; epithecium clausum, rimiforme; perithecium integrum, nigrum carbonaceo-fuscum; sporæ 8, incolores, elongato-oblongæ, 6-cellulosæ, iodo cærulescentes.

Dolosbagey (subtropical) and south of the island (tropical).

Paraphyses distinctæ, confertæ, iodo non tinctæ vel tantum lutescentes. Ad stirpem *frumentariæ* pertinens.

Plate XXXVII. fig. 32.

145. *G. SIMULANS*, Leight., n. sp.: thallus albido-glauescens, lævis, tenuis, subnitidus; lirellæ in massis mediocribus sparsis confertæ, radiatæ, gyratæ vel contortæ, subinnatæ, breviter furcato-ramosæ, margine thallino albido erecto tenui circumcinctæ; epithecium apertum, planum, rufum; perithecium nullum; sporæ 8, incolores, parvæ, oblongæ, 5-cellulosæ, cellulis 2-3-nucleolatis, fere murali-cellulosæ, iodo cærulescentes.

Kandy.

Paraphyses distinctæ, iodo non tinctæ. Forma externa assimilans *G. dividenti*, Nyl., tamen notis allatis dignota. Ad stirpem *Medusularum* pertinens.

Plate XXXVII. fig. 33.

146. *G. SUBINUSTA*, Leight., n. sp.: thallus sordide lutescens, tenuis, lævis, subnitidus; lirellæ immersæ, latæ, nigrae, difformi-stellato-conglomeratæ, margine thallino tenui acuto erecto circumcinctæ; epithecium nigrum opacum, latum, apertum, planum; perithecium fusco-nigrum, lateribus tenue, basi crassum; sporæ 8, incolores vel vix fuscescentes aut tandem fusca, cylindræ, apice uno attenuatæ, transversim 11-oblongo-cellulosæ, iodo non tinctæ.

Peradeniya.

Paraphyses confertæ, vix distinctæ, granulis numerosissimis interspersis, iodo non tinctæ. Facie externa valde simillima *G. inusta*, Ach., tamen perithecio diverso atque sporis majoribus dignota. Ad stirpem *dendriticæ* pertinens.

Plate XXXVII. fig. 34.

147. *G. SUBDIVIDENS*, Leight., n. sp.: thallus albido-glauescens aut lactescens, lævigatus, subnitidus; lirellæ fusca, flexuosæ, divaricato-ramosæ, innatæ, margine thallino albido tumido erecto circumcinctæ; epithecio concavo, aperto, fusco; hypothecium nigro-fuscum, integrum; sporæ 8, pallide fuscescentes, elongato-oblongæ, 6-cellulosæ, iodo non tinctæ.

Central Province.

Ad stirpem *Medusularum* pertinens. Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVI. fig. 7.

148. *G. FISSO-FURCATA*, Leight., n. sp.: thallus albido-glauescens vel lactescens, lævigatus, subnitidus; lirellæ fissurino-erumpentes, angustatæ, e centro longe radiantes, ramis valde elongatis undulatis flexuosis bi- vel trifurcato-divisis, apice acutissimo plerumque furcato, margine thallino turgescente, margine proprio tenui erecto;

epithecium valde angustatum, rimiforme, fuscum; hypothecium laterale, fuscum, basi deficiens; sporæ 2 (una quam altera major), pallide lutescentes, oblongo-cylindricæ, 12-cellulosæ (fere septatæ), cellulis transversim 4-nucleolatis singulari vel duplici serie, iodo cærulescentes.

Nuwarra Eliya, 6000 ft. alt.

Ad stirpem *Fissurinarum* pertinens. Paraphyses distinctæ, iodo lutescentes.

Plate XXXVI. fig. 18.

149. *G. SUBMARCESCENS*, Leight., n.sp. : thallus sordide olivaceus, tenuis, lævigatus, subnitidus, effusus, circa lirellas repandus et ibidem furfuraceo-substriatulus; lirellæ simplices vel divaricato-ramosæ, plus minusve subradiatæ, erumpentes, margine thallino crassiusculo furfuraceo-substriatulo circumcinctæ, marcido-fulvæ, margine proprio tenuissimo; epithecium rimiforme, subhiascens; hypothecium laterale, paululum fuscum, vix conspicuum, basi deficiens; sporæ 8, fuscae, parvæ, lineari-oblongæ, 3-4-septatæ, iodo non tinctæ.

Central Province.

Ad stirpem *Fissurinarum* pertinens. Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVI. fig. 19.

150. *HELMINTHOCARPON LEPREVOSTII*, Fée (Suppl. t. 35. f. 11).

Central Province.

Paraphyses confertæ, indistinctæ, minute granulosa, iodo lutescentes; sporæ 8, pallide virentes, iodo cærulee fuscescentes; hypothecium integrum, crassum.

Plate XXXVI. fig. 71.

151. *OPEGRAPHIA SIDERELLA*, Ach.

Central Province.

152. *PLATYGRAPHIA INTERRUPTA*, Fée.

South of island (tropical).

Paraphyses vix visibiles, iodo lutescentes, vix cærulee tinctæ, sporæ 8, incolores; hypothecium crassum, nigro-fuscum.

Plate XXXVI. fig. 70.

153. *P. MEGISTOCARPA*, Leight., n. sp. : thallus pallide fulvescens, tenuis, lævigatus, subnitidus; apothecia sessilia, nigra, rotundata vel oblonga vel elongato-oblonga, subrectiuscula, plana vel subconvexiuscula, maxima, subpruinosa; margine thallino tenui, mediocri, erecto, albido, integro vel flexuoso-crenulato; sporæ 8, incolores, dein fuscescentes, oblongo-fusiformes, 6-8-cellulosæ; paraphyses confertæ, tamen distinctæ, moniliformes; hypothecium crassum, nigrum; gelatina hymenea iodo vinose fulvescens aut lutescens.

Ceylon.

Plate XXXVI. fig. 20.

Forma *rotundata*, Leight. : apothecia rotundata vel oblonga, margine thallino crassiore integro; sporæ 6-cellulosæ.

Plate XXXVI. fig. 21.

154. *P. GEMMATA*, Leight., n. sp. : thallus flavido-virescens, opacus, granulosus vel subleprosus et rimosulus, effusus; apothecia sessilia, nigra, rotundata oblonga vel difformia, lobata simplicia vel divaricato-lobata, obtusa; margine thallino albo, crasso, tumido, crenato; sporæ 8, incolores, dactyloideæ, 2-septatæ; paraphyses distinctæ, iodo cærulee obscuratæ; hypothecium nigro-fuscum.

Peradeniya.

Plate XXXVI. fig. 22.

155. *P. AULAXERPETA*, Leight., n. sp. : thallus albido-glauescens, tenuis, lævigatus, nitidus, linea fusco-nigra limitatus; apothecia nigra, innata, angustata, serpentinoidee flexuosa, valde elongata, apice attenuata, subconcaviuscula, margine thallino crassiusculo integro; sporæ 8, incolores, elongato-oblongæ, 6-cellulosæ, iodo cærulescentes; paraphyses confertæ, distinctæ; gelatina hymenea iodo lutescens; hypothecium marginibus supernis et basi paululum fuscum.

Ceylon.

Plate XXXVI. fig. 23.

156. *P. DENDROIDES*, Leight., n. sp. : thallus albido-glauescens vel olivaceus, lævigatus, subrugulosus, tenuis; apothecia sessilia, dendritice radiata, ramis undulatis simplicibus aut uni- vel bifurcato-divisis, apicibus attenuatis, plana vel subconcaviuscula, glauco-pruinosa, margine thallino tenui crassiusculo; sporæ 4-8, incolores, dein fuscrescentes, oblongæ, 5-6-cellulosæ, iodo fuscae; paraphyses confertæ, vix distinctæ; gelatina hymenea iodo lutescens; hypothecium nigro-fuscum, basi crassum, lateribus tenue.

Ceylon (South).

Plate XXXVI. fig. 24.

157. *P. FRACTUOSA*, Leight., n. sp. : thallus albido-fulvescens, rugosus, tenuis, subnitidus; apothecia nigra, glauco-pruinosa, subsessilia, subinnata, flexuosa, oblonga vel rotundato-oblonga, obtusa, confluentia, pseudo-radiatim aut dendritice disposita atque quasi seriatim fractuosa, margine thallino distincto integro crassiusculo; sporæ 8, fuscescentes, elongato-oblongæ, 6-7-8-cellulosæ, iodo cærulescentes; paraphyses distinctæ, iodo non tinctæ; hypothecium vix conspicuum, tantum paululum fuscrescens.

Central Province.

Plate XXXVI. fig. 25.

158. *P. GALACTINA*, Leight., n. sp. : thallus galactinus, lævissimus, crassiusculus, subtartareus, effusus; apothecia nigra, interruptim radiata, simplicia vel subdendritico-ramosa, immersa, apicibus obtusis; epithecium concavum, fusco-nigrum, spurie marginatum; hypothecium fuscum, lateraliter tantum decoloratum, basi crassum fuscum;

sporæ 8, incolores, tandem fuscae, ellipsoideæ, parvæ, 4-cellulosæ, cellulis aliquando binucleolatis, iodo non tinctæ.

Ad saxa in rivis. South of the island.

Paraphyses distinctæ, iodo non tinctæ.

Plate XXXVII. fig. 35.

159. *P. MELANOSTALAZANS*, Leight., n. sp. : thallus lutescens vel olivaceus, crassiusculus, lævis, effusus, subnitidus ; apothecia immersa, valde dendritico-ramosa, gracilia, apicibus magnopere obtusis ; epithecium nigrum, tenuiter pruinose, planum, apertum, thallo sursum elevato undulatim circumcinctum ; hypothecium crassum, nigrum, carbonaceum ; sporæ 8, incolores, elongato-oblongæ, 8-cellulosæ, iodo luteo-fuscescentes.

Ad cortices. South of the island.

Paraphyses confertæ, granulis interspersis, iodo luteo-fuscescentes.

Plate XXXVII. fig. 36.

160. *P. STICTOIDES*, Leight., n. sp. : thallus lutescens, tenuis, lævis aut minute granulosus, subnitidus ; apothecia erumpentia, rotundo-diformia vel radiato-confluentia ; epithecium planum, dilatatum, plumbeo-pruinose, innatum, margine prominente crasso niveo pulverulento circumcinctum ; sporæ 8, incolores, parvæ, oblongæ, 3-septatæ, iodo fuscescentes ; hypothecium fuscum ; paraphyses distinctæ, iodo lutescentes.

Ad cortices. South of the island.

Facie externa assimilans fungo vocato *Stictis radiata*.

Plate XXXVII. fig. 37.

161. *ARTHONIA CINNABARINA*, Wallr.

Paradeniya.

162. *A. SUBVENOSA*, Leight., n. sp. : thallus albidus vel albus, tenuis, sublævigatus, vix farinosus, linea nigra limitatus, circa apothecia turgescens ; apothecia fusca, in prominentiis depressis thallinis immersa, punctiformia, in seriebus linearibus mediocribus simplicibus vel divaricato-ramosis vel versiformibus consociata ; sporæ 8, maximæ, incolores, obovatæ, murali-divisæ vel cellulosæ, iodo cærulee virescentes ; gelatina hymenea iodo vinose rubens.

Ceylon.

Plate XXXVI. fig. 26.

163. *A. PELLÆA*, Leight., n. sp. : thallus sordide fulvescens, opacus, tenuis, lævigatus, rimulosus, margine fusco cinctus ; apothecia fusco-nigra, rotundo-diformia, plana, sparsa ; sporæ 8, maximæ, fuscae, lineari-obovatæ, 7-medio-septatæ (aliquando 9-septatæ), iodo vinose rubescentes.

Ceylon.

Plate XXXVI. fig. 27.

164. *A. SUBILICINA*, Leight., n. sp.; thallus sordide vel albido-cinereus, subnitidus, tenuis, lævigatus, linea fusca limitatus; apothecia nigra vel nigro-fusca, rotundata et rotundo- vel versiformi-diformia, depresso-convexiuscula, innata vel aliquando subsessilia, atque margine thallino tenuissimo farinaceo circumcincta, quasi a thallo laxata atque sursum curvans; sporæ 8, lineari-obovatae, 7-medio-septatae, incolores, cellulis murali-divisis, dein fuscae atque cellulis simplicibus non murali-divisis.

Peradeniya.

Plate XXXVI. fig. 28.

165. *GLYPHIS HETEROCLITA*, Mont.

Peradeniya.

Paraphyses confertae, indistinctae; sporæ 8?, incolores vel leviter fuscescentes, iodo fusco-lutescentes; hypothecium fuscum.

Plate XXXVI. fig. 69.

166. *G. LABYRINTHICA*, Ach.

Ceylon, from level of sea up to 2000 ft.

Paraphyses confertae, indistinctae, iodo lutescentes; sporæ 8, incolores, 4-6-cellulosae, tandem leviter fuscescentes.

Plate XXXVI. fig. 68.

167. *G. CONFLUENS*, Mont.

Central Province.

Paraphyses distinctae, iodo lutescentes; sporæ 8?, incolores, iodo caeruleascentes; hypothecium fuscum.

Plate XXXVI. fig. 67.

168. *G. GYRIZANS*, Leight., n. sp.: thallus sordide olivaceus, effusus, lævigatus, opacus; stromata alba, rotundato-diformia, sparsa vel confluentia, depressa, albo-pruinosa; apothecia linearia, angustata, conferta, innata, in gyratis vel contorto-reduplicatis massis, caesio-pruinosa, intus nigra; sporæ 8, incolores, leviter fuscescentes, lineari-oblongae aut obovatae, 8-cellulosae, cellulis bi- trinucleolatis, iodo fuscescentes; paraphyses confertae, indistinctae, granulis interspersis.

Peradeniya.

Plate XXXVII. fig. 38.

169. *G. SUBTRICOSA*, Leight., n. sp.: thallus pallide olivaceus, tenuis, lævigatus; stromata alba, depressa, membranacea, rotundo- vel oblongo-versiformia; apothecia medusuliformia, primo erumpentia, dein plana vel subconcaviuscula, radiato- vel stellatim intricato-ramosa, fusca, caesio-pruinosa, intus nigro-fusca; sporæ 8, parvae, obovato-oblongae, incolores, dein leviter fuscescentes, iodo lutescentes; paraphyses indistinctae, iodo lutescentes.

Peradeniya.

Plate XXXVII. fig. 39.

170. *CHIODECTON HYPOCHNOIDES*, Nyl. (K —.) = Lindig, N. Gran. 61.

Peradeniya.

Paraphyses distinctæ, iodo vinose fuscæ, apicibus cærulescentes; sporæ 8, incolores.
Plate XXXVI. fig. 66.

171. *C. FARINACEUM*, Fée. (K —.)

South of the island.

Paraphyses distinctæ, iodo vinose fuscæ; sporæ 8, incolores, iodo non tinctæ.
Plate XXXVI. fig. 65.

172. *C. SPHÆRALE*, Ach. (K —.)

Peradeniya.

Paraphyses indistinctæ; sporæ 8, incolores, iodo leviter cærulescentes.
Plate XXXVI. fig. 64.

173. *C. FEEI*, Meisn. (K —.)

Central Province.

Paraphyses indistinctæ, iodo leviter lutescentes; sporæ 8, incolores aut ætate fuscae, 4-8-cellulosæ.
Plate XXXVI. fig. 63.

174. *VERRUCARIA CEYLONENSIS*, Mass.

Ceylon.

Perithecium crassissimum, carbonaceum, dimidiatum, basi incurvatum; paraphyses graciles, iodo lutescentes; sporæ 8, in ascis linearibus, incolores, similes sporis *V. epidermidis*, iodo lutescentes.
Plate XXXVII. fig. 40.

175. *V. TROPICA*, Ach.

Central Province, very abundant.

Perithecium nigrum, integrum. Paraphyses paucae, distinctæ, granulis interspersis, iodo fuscæ; sporæ 8, pellucidæ, iodo fuscæ.
Plate XXXVI. fig. 62.

176. *V. CATERVARIA*, Fée.

Central Province.

Perithecium nigrum, tenue, integrum; paraphyses distinctæ, granulis interspersis, iodo lutescentes; sporæ 8, pellucidæ, iodo fuscæ.
Plate XXXVI. fig. 61.

177. *V. MARGINATA*, Hook. (*complanata*, Mont.).

Central Province.

Perithecium dimidiatum; paraphyses distinctæ, gracillimæ, iodo non tinctæ; sporæ 8, fuscæ.
Plate XXXVI. fig. 60.

178. *V. ASPISTEA*, Ach. (non Fée), = forma *V. nitidæ*, Schrad., var. *nitidellæ*, Flk., see Nyl. *Pyrenoc.* p. 46.

Ceylon.

Perithecium integrum, crassum; paraphyses graciles, discretæ, iodo lutescentes; sporæ 8, incolores, anguste ellipsoideæ, 4-loculares.

Plate XXXVI. fig. 59.

179. *V. AGGREGATA*, Fée.

Central Province.

Perithecium dimidiatum, tunica crassa nigra; paraphyses distinctæ, deliquescentes, iodo non tinctæ; sporæ 4 incolores, tandem fusæ.

Plate XXXVI. fig. 58.

180. *V. PUNCTELLA*, Nyl.

Central Province.

Perithecium integrum, nigrum; paraphyses distinctæ, iodo vinose rubentes; sporæ 8, fusæ.

Plate XXXVI. fig. 57.

181. *V. SANTENSIS*, Tuck.

Central Province.

Perithecium integrum, crassum; paraphyses distinctæ, graciles, iodo lutescentes; sporæ 8, incolores atque fuscæ.

Plate XXXVI. fig. 56.

182. *V. DESQUAMESCENS* (Fée).

Central Province.

Perithecium dimidiatum, pallido-fuscum, cartilagineum; paraphyses distinctæ; sporæ 8, incolores, 3-5-7-septatæ, iodo lutescentes.

Plate XXXVI. fig. 55.

183. *V. INNATA*, Nyl.

Central Province, Peradeniya.

Perithecium dimidiatum, fuscum, tunica pallida; paraphyses distinctæ, iodo non tinctæ; sporæ 8, incolores, iodo lutescentes.

Plate XXXVI. fig. 54.

184. *V. VARIOLOSA*, Pers.

Central Province.

Plate XXXVI. fig. 53, spora.

185. *V. BORBONICA*, Nyl.

Central Province.

Perithecium integrum, nigrum, patens; paraphyses distinctæ, graciles, iodo vinose rubentes; sporæ 8, primo pallidæ globose nucleolatæ in 12 seriëbus, postea fusæ indistinctæ 3-septatæ nucleolis vix visibilibus.

Plate XXXVI. fig. 52.

186. V. DUPLICANS, Nyl.=Lindig, N. Gran. p. 40.

Central Province.

Perithecium integrum, nigrum, crassum, carbonaceum; paraphyses graciles, iodo vinose rubentes; sporæ 2, fuscae.

Plate XXXVI. fig. 51.

187. V. ASPISTEA, Fée (non Ach.).

Central Province.

Perithecium integrum, nigrum; paraphyses paucae, distinctae, iodo vinose rubentes; sporæ 8, 7-septatae, cellulis nucleolatis, fuscescentes.

Plate XXXVI. fig. 49.

188. V. ASPISTEA, Fée (non Ach.), var. *astroidea*=*Parmentaria astroidea*, Fée.

Central Province.

Perithecium integrum, nigrum; paraphyses graciles, distinctae, iodo vinose rubentes; sporæ 8, incolores aut tenuiter luteae, nucleolatae in 8-9 seriebus transversis.

Plate XXXVI. fig. 50.

189. V. EMERGENS, Leight., n. sp.: thallus pallido-lutescens, lævigatus, subnitidus, effusus; apothecia parva, omnino thallo obtecta, apice tantum emergente, fusco-nigra; perithecio integro nigro, ostiolo minuto vix conspicuo; sporæ 8, mediocres, fuscescentes, oblongo-ovatae, 7-septatae, cellulis 3-4 nucleolatis; paraphyses distinctae, iodo vinose rubescentes.

Peradeniya, elev. 1600 feet.

Plate XXXVII. fig. 41.

190. V. THWAITESII, Leight., n. sp.: thallus pallido-lutescens, lævigatus, nitidus, effusus; apothecia maxima, nigra, conico-hemisphaerica, basi thallo obtecta, perithecio nigro crassissimo integro cartilagineo, ostiolo magno depresso conspicuo; sporæ 8, maximae, incolores, dein fuscescentes, elongato-oblongae, 7-septatae, cellulis nucleolis sphaericis hyalinis repletis; paraphyses longissimae, graciles, distinctae, iodo vinose rubescentes.

Ceylon.

This, the first Ceylon lichen I ever examined, I dedicate to the learned Curator of the Royal Botanical Garden at Peradeniya, to whose kindness we owe this fine collection of tropical lichens.

Plate XXXVII. fig. 42.

191. ENDOCOCCUS GRAPHIDICOLUS, Leight., n. sp.: thallus alienus; perithecium minimum, globosum, integrum, nigrum, carbonaceum, nitidum; paraphyses nullae; sporæ 8, incolores, obovato-oblongae, 1-2 septatae, cellula anteriore majore, iodo fuscescentes.

Supra thallum *Graphidis anguilliformis*, Tayl. South of the island.

Plate XXXVII. fig. 43.

192. TRYPETHELIUM SCHIZOSTOMUM, Leight., n. sp.: thallus pallido-lutescens, lævigatus, inæqualis, subnitidus, effusus; apothecia in prominentiis thallinis irregularibus

confluentibus inclusa, ostiolo magno aperto, margine irregulari-fisso erecto crassiusculo; sporæ 8, parvæ, incolores aut fuscæ, late ovatæ, 4-cellulosæ, cellulis trinucleolatis, iodo non tinctæ.

Central Province.

Species insignis et dubitanda an ad hoc genus an ad *Thelotrema* potius referenda sit.

Plate XXXVII. fig. 44.

193. *T. UBERINUM*, Fée.

South of the island.

Plate XXXVI. fig. 48.

194. *T. MEGASPERMUM*, Mont.

South of the island.

Paraphyses distinctæ, paucæ, granulis interspersis, iodo non tinctæ; sporæ 4, incolores, iodo non tinctæ; asci iodo fuscæ.

Plate XXXVI. fig. 47.

195. *T. PALLESCENS*, Fée.

South of the island.

Plate XXXVI. fig. 46.

196. *T. SPRENGELII*, Ach.

Peradeniya.

Plate XXXVI. fig. 45.

W. Leighton del.

G. Jarmen sc.