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IV.

LICHENÆA AFRICANA

SCRIPSIT

ERNESTUS STIZENBERGER

DR. MED.

Inde ab exitu anni 1885 usque ad finem 1889 subsicivam operam cui a quotidianis muneribus vacabam maximam partem in Lichenum Africorum cognitione, disquisitione, descriptione consumpsi. Quidquid in hoc genere interdum et difficillimo et subtilissimo profecerim, hoc indice omnium, qui ad hoc tempus in Africa inventi sunt, lichenum in medium conferre statui.

Qua quidem in re mihi et collectionum cum pretiosissimarum tum copiosissimarum et omnium fere librorum et commentariorum qui unquam de Lichenibus Africis conscripti sunt, copiam liberaliter esse factam confiteor.

Ex collectionibus Lichenum Africorum quæ disquisitioni meæ subjectæ erant inprimis commemoratas esse velim hasce:

1. Missas nonnullas a Professore MacOwan ex Kapstadt easque copiosissimas maximam partem ab ipso factas;
2. partem Lichenum a Professore A. Rehnann Lembergensi in Africa australi comparatorum;
3. collectionem Lichenum Austro-Africanorum a Dre. Wilms Lydenburgi factam;
4. missas nonnullas a Domino C. Flagey ex orientali parte Algeriæ; sunt hi lichenes maximam partem ab ipso collecti;
5. Lichenum Africorum mei et proprii herbarii cum additamentis ex collectionibus Dominorum Breutel, Hepp, Lahm, v. Krempelhuber, Nylander;

6. Lichenes Africos Musei aulici Imperialis Regii Vindobonensis;
7. Lichenes Africos ex herbario universitatis Lipsiensis et
8. Instituti Regii Botanici Monacensis;
9. Lichenes Africos Musei Bohemici et horti botanici Pragensis;
10. item Musei naturalis Magniducalis aulici Caroliruhæ;
11. Herbarium Dominorum Willkomm et Celakowski Pragæ;
12. Specimina Africana Herbarii Arnold Monachii;
13. item Herbarii Lojka Budapesthi et
14. Herbarii Gubernatorii in Kapstadt;
15. Lichenes Beccarinianos Herbarii Baglietto Genuæ.

Qui hinc excepti index continet omnes, qui de Lichenibus Africis conscripti sunt libros et commentationes, quæ quidem pleraque inspexi et diligenter perscrutatus sum. Si qui libellus mihi non suppetierat, asterisco notabatur.

1798. Acharius, Lichenographiæ Suevicæ Prodrömus, Lincopiæ.
1803. Acharius, Methodus Lichenum, Stockholmia.
1810. Acharius, Lichenographia universalis, Gottingæ.
1814. Acharius, Synopsis methodica Lichenum, Lundæ.
1825. Fries El., Systema Orbis Vegetabilis, I. Plantæ homonemæ, Lundæ.
- „ Meyer G. Friedr. Wilh., Nebenstunden, Göttingen.
1827. Laurer F., Sieber'sche Lichenen in Linnæa II p. 38.
1843. Flotow, J. von, Lichenen des Reisevereins und des Hochstetter'schen Herbarii, ib. XVII p. 15.
1850. Schaerer, Enumeratio critica Lichenum Europæorum, Bernæ.
1858. Nylander, Énumération générale des Lichens, in Mém. soc. imp. sc. nat. Cherbourg V p. 85.
- „ Nylander, Expositio synoptica Pyrenocarpeorum, Andecavis.
- 1858—1860. Nylander, Synopsis methodica Lichenum I, II p. 1—64, Parisiis.
- 1860—1877. Tuckerman, Observationes Lichenologicæ I—IV, in Proceed. Americ. Acad. Arts and Scienc.
1861. Nylander, Quelques observations sur le genre Cœnogonium, in Ann. sc. nat. 4 Bot. XVI p. 83.
- „ Nylander, Conspectus generis Thelotrematis, ib. p. 95.

1861. *United States Exploration under the command of Capt. Ch. Wilkes. Vol. XVII, Lichens by T u c k e r m a n.
- 1865—1887. N y l a n d e r, Addenda nova ad Lichenographiam europæam, in Flora, Regensburg.
1868. K r e m p e l h u b e r, A. v o n, Exotische Flechten, in Verh. k. k. zool.-bot. Gesellsch. Band XVIII p. 303, Wien.
- „ N y l a n d e r, Conspectus synopticus Sticteorum, in Bull. Soc. Linn. Normand. Vol. II 2^e série, Caen.
1870. N y l a n d e r, Recognitio monographica Ramalineorum, ibid. 2^e série, Tome IV, Caen.
1870. Reise Seiner Majestät Fregatte Novara um die Erde, bot. Theil, I. Band, Flechten, bearbeitet von A. v o n K r e m p e l h u b e r, Wien.
- 1874—1889. M ü l l e r J., Lichenologische Beiträge, in Flora.
1876. K r e m p e l h u b e r, A. v o n, Aufzählung und Beschreibung von Flechtenarten, welche Dr. Wawra von zwei Reisen um die Erde mitbrachte, in Verh. k. k. zool. - bot. Gesellsch. Band XXVI p. 436, Wien.
1877. C r o m b i e, The Lichens of the Challenger Expedition, in Linn. Soc. Journ. Bot. Vol. XVI.
1879. L e i g h t o n, The Lichen-Flora of Great Britain, III Edit. Shrewsbury.
1881. S t i r t o n, On the genus Usnea and an other (Eumitria) allied to it, in Scot. Naturaliste, July.
1882. C r o m b i e, Additions to the Lichens of the Challenger Expedition, in Linn. Soc. Journ. Bot. Vol. XX.
- „ T u c k e r m a n, A synopsis of the North American Lichens, Part I, New Bedford, Mass.
1883. M ü l l e r J., Die auf der Expedition der Gazelle von Dr. Naumann gesammelten Lichenen, in Engler's bot. Jahrb. IV p. 53, Leipzig.
1884. M ü l l e r J., Nachtrag zu den von Dr. Naumann auf der Expedition der Gazelle gesammelten Flechten, ib. V p. 133.
1885. N y l a n d e r, Parmeliæ exoticæ, in Flora 1885 p. 605.
1887. M ü l l e r J., Graphideæ Feeanæ, in Mém. Soc. Phys. Hist. nat. Genève.
- „ W a i n i o E d., Monographia Cladoniarum universalis, Pars I, in Act. Soc. Flor. Faun. Fennic. IV, Helsingforsia.
1888. T u c k e r m a n, A Synopsis of the North American Lichens, Part II, New Bedford, Mass.

1888. Müller J., Pyrenocarpeæ Feeanæ, in Mém. Soc. Phys. Hist. nat., Genève.
- „ Hue, Addenda nova ad Lichenographiam europæam, exposuit in Flora Ratisb. Dr. W. Nylander, in ordine systematico disposuit Hue, in Revue botanique, Paris.
- * * *
1794. *Thunberg, Prodrum Plantarum Capensium, Upsaliæ.
1804. *Bory de St. Vincent, Voyage dans les quatre principales îles des mers d'Afrique, Paris.
1813. *Delile A.-R., Flore d'Égypte p. 154—159, Paris.
1830. Holl Friedr., Verzeichniss der auf der Insel Madera beobachteten Pflanzen, in Flora 1830 p. 369.
1836. *Savi, Catalogo di piante egiziane raccolte dal naturalista Gius. Raddi p. 15.
1840. *Webb, P. Barker- et Sabin Berthelot, Histoire naturelle des Iles Canaries III. Plantæ cellulares auctore C. Montagne, Paris.
1843. Verzeichniss der Standorte der von Drège in Südafrika gesammelten Pflanzen, in Flora 1843 Anhang p. 44.
1844. *Watson Henett, Notes on the Botany of the Azores, in Lond. Journ. Bot. III.
1846. Kraus Ferd., Pflanzen des Cap- und Natallandes, in Flora 1846 p. 136.
- 1846 et sq. Exploration scientifique de l'Algérie, Botanique par Bory de St. Vincent et Durieu de Maisonneuve, Lichens par C. Montagne et Durieu de Maisonneuve, Paris.
1847. Ferret et Galinier, Voyage en Abyssinie, Lichens, Tome III p. 162.
1853. *Nylander, Lichenes Algerienses novi, in Ann. sc. nat. III Bot. XX p. 315, Paris.
1854. Nylander, Études sur les Lichens de l'Algérie, in Mém. soc. sc. nat. de Cherbourg II.
1857. Nylander, Prodrum Lichenographiæ Galliæ et Algeriæ, Burdigalæ.
- „ *Bunbury, Remarks on the Botany of Madera and Teneriffa, in Journ. Proc. Linn. Soc. I p. 1.
- „ Hartung Georg, Die geologischen Verhältnisse der Inseln Lanzasote und Fuertaventura, in Denkschr. Schweiz. naturf. Gesellsch.

1858. *Russel J.-L., Notes on the cryptogamic vegetation of Fayal, Azores, in Proc. Essex Instit. II. p. 134.
1859. Nylander, Lichenes in regionibus quibusdam exoticis vigentes III. Lichenes insulæ Borboniæ, in Ann. sc. nat. Bot. 4, XI p. 228, Paris.
1860. Montagne, Florula Gorgonea, ibid. XIV p. 341.
1861. Massalongo, Lichenes Capenses quos collegit in itinere 1857—1858 Dr. Wawra, in Mem. Istit. Venet. X p. 33.
1862. Nylander, De Lichenibus quibusdam Guineensibus, in Flora 1862 p. 474.
1863. Nylander, Adhuc de Lichenibus quibusdam Guineensibus, ib. 1863 p. 265.
1864. *Nylander, Sur quelques Lichens d'Algérie, in Bull. Soc. Bot. France Tome XI p. 215.
- „ Nylander, Lichenes in Aegypto a cel. Ehrenberg collecti, in Act. Soc. Linn. Bordeaux XXV.
1866. *Lindsay, Notes on some African Lichens and Fungi, in Transact. Bot. Soc. Edinb. Vol. VIII, part III p. 378.
- „ *Drouet, Catalogue de la Flore des îles Azores, in Mém. Soc. Acad. Aube XXX.
1867. Nylander, Circa Genus Lichenum Dermatiscum, in Bot. Zeit. 1867 p. 133.
1868. Krepelhuber, A. von, Prodromus Lichenographiæ insulæ Maderæ, in Flora.
- „ Nylander, Note sur les Lichens de Port Natal, Caen.
- „ *Cossou, Catalogue des plantes recueillies par G. Mandon dans les îles de Madera et de Porto Santo, in Bull. Soc. Bot. France Tome XV p. 81.
1869. Nylander, Lichenes Angolenses Welwitschiani, in Bull. Soc. Linn. Norm. 2^e série t. II, Caen.
- „ Leighton, Note on the Lichens of the island of St. Helena, in Trans. Linn. Soc. London, Vol. XXVII p. 155.
1872. Leighton, Lichenological Memorabilia I, in Grevillia, July 1872: Marocco Lichens.
1875. Baglietto, Lichenes in regione Bogos Abyssiniæ septentrionalis lecti ab O. Beccari, in Nuov. Giorn. Bot. Ital. VII, Luglio.
1876. Nylander, Lichenes in Aegypto a. cl. Larbalestier collecti, in Flora 1876 p. 281.
- „ Crombie, Lichenes Capenses, an enumeration of the Lichens collected at the Cape of Good Hope by the Rev. A. E. Eaton. in Linn. Soc. Journ. XV.

1876. Crombie, New Lichens from the Cape of Good Hope, in Journ. Bot. January.
„ Crombie, Lichens collected by W. Pool in Madagascar, ib.
„ Crombie, Lichenes insulæ Rodriguesii collected by J.B. Balfour, in Linn. Soc. Journ. XV.
1877. K r e m p e l h u b e r, A. v o n, Neue Beiträge zu Africa's Flechtenflora, in Linnæa. Neue Folge VII.
„ S t i r t o n, Additions to the Lichen Flora of South Africa, in Trans. Glasg. Soc. Field Naturalists V.
1878. N y l a n d e r, Symbolæ quædam ad Lichenographiam Sahariensem, in Flora 1878 p. 39.
1880. M ü l l e r J., Les Lichens d'Égypte, in Revue mycolog. II p. 6.
„ M ü l l e r J., Lichenes Africæ occidentalis a cll. Dr. Peschuel-Loesche et Soyaux in regione fluminis Quillu et ex Angola missi, in Linnæa XLIII p. 46.
„ K r e m p e l h u b e r, A. v o n, Lichenes Rutenbergiani, in Abhandl. d. naturw. Vereins in Bremen VII p. 53.
1882. S t e i n, die von Schadenberg in Mindana und von R. Fritze in Madera gesammelten Flechten, im Bericht über die Thätigkeit der bot. Section der schlesischen Gesellschaft im Jahr 1882.
„ M ü l l e r J., Diagnoses Lichenum Socotrensium in Proc. Roy. Soc. Edinb. XI.
„ J a t t a, Licheni Africani raccolti nello Scioa dal Marchese Antinori, in Nuov. Giorn. Bot. Ital. XIV p. 169.
1884. M ü l l e r J., Enumerationis Lichenum Aegyptiacorum Suppl. I in Revue mycolog. No. 21 p. 3.
1885. N y l a n d e r, Lichenes collecti in Africa occidentali a Franc. Newton, in Boll. Soc. Brot. III p. 130 Coimbra.
1886. N y l a n d e r, Lichenes insulæ San Thomé, in Flora 1886 p. 171.
1886. S t i z e n b e r g e r, Nachtrag zur botanischen Ausbeute der Novara-Expedition, in Flora 1886 p. 415.
1887. Contribuições para o estudo da Flora d'África; N y l a n d e r Lichenes, in Boll. Soc. Brot. IV Coimbra.
„ S t i z e n b e r g e r, Lichenes insulæ Maderæ, ib. V.
1888. N y l a n d e r, Lichenes nonnulli ex insula Principis, ib. p. 221.
1888. B a l f o u r J. B., Botany of Socotra, Lichenes Socotrani by Dr. J. M ü l l e r of Geneva, in Trans. Roy. Soc. Edinburgh XXXI p. 343.
1889. N y l a n d e r, Lichenes insularum Guineensium, Paris.

1889. Stein, K. Garteninspector B., Ueber afrikanische Flechten (1. vom Kilimandscharo, 2. von Usambara und 3. vom Kongo) im Bericht über die Thätigkeit der bot. Section der schles. Gesellsch. im Jahr 1888.¹

Denique cum non dubitarem, quin plurimum intersit lectoris novisse qui viri Lichenibus Africis et colligendo et peregrinando operam dederint, nomina eorum contexui et in qua quisque regione Africæ versatus sit addidi. Quam vellem de singulis uberius disserere. Sed de plerorumque personis et conditionibus egomet ipse in summa ignoratione versabar.

A f z e l i u s, Prof. Ad. (Guinea) cfr. Ach. Meth.,
A n t i n o r i, Marchese (Schoa) cfr. Jatt. Afr.,
A r m s t r o n g, Miss (Port Natal) cfr. Nyl. Nat.,
A s c h e r s o n (Aegyptus) cfr. Müll. Egypt.,
B a l a n s a (Algeria) cfr. Nyl. Lich. Alg. novi,
B a l f o u r, Prof. Is. Bayley (Inss. Rodriguesii et Socotra) cfr.
 Cromb. Rodr., Müll. Diagn. Socot. et Balfour Bot. Socotr.,
B a r b e y - B o i s s i e r, W. (Aegyptus) cfr. Müll. Egypt. II,
B a u m (Madera),
B a u r (Cafraria),
B e c c a r i, Prof. O. (Territorium Bogos) cfr. Bagl. Abyss.,
B e n t h a m (Algeria),
B e r n i e r (Madagascar),
B e r t h e l o t, Sab. (Inss. Canariæ) cfr. Webb-Berthelot Hist. nat.
 Canar.,
B o i v i n (Inss. Comorenses, Madagascar et Borbonia),
B o l l (Inss. Canariæ),
B o l l e (Promontorium viride) cfr. Mont. Flor. Gorg.,
B o r y d e S a i n t - V i n c e n t (Madagascar, inss. Mascarenæ),
B o u r g e a u (Teneriffa),
B o u r g e t (Inss. Canariæ),
B o v é (Algeria),
B o y e r (St. Mauritius),
B r e u t e l, J. Chr. (Promontorium Bonæ Spei),
B r i d e l (Insula Borbonia),
B r u n (Marocco) cfr. Müll. L. B. in Flora,
B u n b u r y (Madera, Teneriffa),
B u r c h e l l, Dr. W. (Ins. Sanctæ Helenæ) cfr. Leight. Helen.,

¹ Magnopere doleo quod hoc qui mihi tum demum innotuit libro, cum jam commentatio mea prelo subjecta esset, tantum ex minima parte uti mihi licebat.

- Bussy (Angola),
 Büthner (Africa occidentalis),
Castello da Paiva (Madera) cfr. Krmplh. in Flora 1868 p. 221,
 Cosson (Algeria),
Delile, A.-R. (Aegyptus),
 Despréaux (Inss. Canariæ),
 Drège, Joh.-Friedr. (Promontorium Bonæ Spei),
 Durieu de Maisonneuve (Algeria),
Eaton, A.-E. (Mons Tabularis) cfr. Cromb. Cap.,
 Ecklon, Chr.-Fr. (Promontorium Bonæ Spei),
 Egeling (Insula Socotra),
 Ehrenberg, Prof. C.-G. (Aegyptus) cfr. Nyl. Aegypt.,
Flagey, Camille (Algeria orientalis),
 v. Fritsch (Ins. Teneriffa),
 Fritze (Ins. Madera) cfr. Stein Ber. schles. Gesellsch. 1882,
Gaudichaud (Ins. Borbonia),
 Geiger (Madagascar),
 Godmann (Azores),
 Grant, A. (Africa occidentalis),
 Gretan (Insula Sancti Mauritii),
 Gueinzus (Promontorium Bonæ Spei),
 Guthnick (Azores),
Hartung, G. (Azores, Madera, inss. Canariæ) cfr. Hepp in Hart.
 Lanzarote et Fuertav.,
 Heer, Prof. Oswald (Madera),
 Hesse, Pastor (Promontorium Bonæ Spei) cfr. Meyer Neben-
 stunden,
 Hesse, Paul (Ostium fluminis Kongo),
 Hildebrandt (Africa orientalis, Madagascar et inss. Comores),
 Holl, Fr. (Madera) cfr. Flora 1830,
 Hooker, J.-D. (Ins. Sanctæ Helenæ),
 Hüffer (Algeria occidentalis) cfr. Müll. L. B. in Flora,
 Humblot (Insulæ Comores).
 Husnot, C. (Inss. Canariæ),
Jardin (Guinea),
 Jelinek (Madera, Promontorium Bonæ Spei) cfr. Kremplh.
 Novara,
Knosp (Madagascar),
 Kotschy, Th. (Aethiopia),
 Kralik (Regiones Tunetanæ),
 Kraus, Fr. (Promontorium Bonæ Spei) cfr. Flora 1846 p. 136,

- L**a P e r r a u d i è r e (Insulæ Canariæ, Kabylia),
 L a r b a l e s t i e r (Aegyptus) cfr. Nyl. in Flora,
 L e p e r v a n c h e - M é z i è r e s (Borbonia),
 L e t o u r n e u x , Aristide (Algeria) cfr. Nyl. quelques Lich. d'Algérie,
 L o w e (Madera),
Ma c L e a (Transvaal),
 M a c O w a n , Prof. P. (Promontorium Bonæ Spei),
 M a n d o n (Madera) cfr. Cosson catalogue,
 M a n n , G. (Guinea) cfr. Nyl. in Flora 1862 p. 474 et 1863 p. 265,
 M a s s o n (Madera),
 M e y e r , Dr. Hans (Kilimandscharo, Usambara) cfr. Stein Afric.,
 M e l l i s s , J.-C. (Ins. Sanctæ Helenæ) cfr. Leight. Helen.,
 M i l n e (Insula Tristan d'Acunha, Promontorium Bonæ Spei),
 M o l l e r (Insulæ Guineenses) cfr. Nyl. in Flora 1886,
 M o s e l e y (Inss. Azores, Teneriffa, Ascensionis, Tristan d'Acunha,
 Inaccessible Island et Promontorium viride) cfr. Crombie
 Chall. Exp.,
Na u m a n n , Dr. (Guinea, insula Ascensionis) cfr. Müll. Gazelle I, II,
 N e w t o n , Franc. (Africa occidentalis) cfr. Nyl. Boll. Soc. Brot. 1885,
 N o r r l i n , J.-P. (Sahara) cfr. Nyl. in Flora 1878,
Or p e n (Respublica Oranje),
 O s b e c k (Promontorium Bonæ Spei),
Pa c h o (Tripolis, Cyrene),
 P a r i s (Algeria),
 P a y n e (Madera),
 P e r r o t t e t (Promontorium viride, insula Sanctæ Helenæ),
 P e r v i l l é (Madagascar),
 P e c h u e l - L o e s c h e Dr. (Guinea inferior) cfr. Müll. Afr. occid.,
 P o o l (Madagascar) cfr. Combrie Madag.,
Qu a r t i n - D i l l o n (Abyssinia),
 Q u i n t a s , F. (Insulæ Sancti Thomæ et Principis) cfr. Nyl. Ins. Guin.,
Re b o u d (Algeria),
 R e h m a n n , Prof. A. (Africa australis),
 R i c h a r d (Borbonia),
 R i t t e r (Insula Sancti Mauritii),
 d e R o b i l l a r d (Insula Sancti Mauritii) cfr. Müll. L. B. in Flora,
 R o u s s e l (Algeria),
 R u t e n b e r g (Madagascar) cfr. Krmplh. Lich. Rutenb.,
Sa l z m a n n (Tanger),
 S c h i m p e r , Wilh. (Abyssinia) cfr. Fw. in Linnæa 1843 p. 15,

- Schinz, Dr. Hans (Africa austro-occidentalis) cfr. Müll. L. B. in Flora,
 Schloemann, Missionarius (Territorium Zulu),
 Schott (Promontorium Bonæ Spei),
 Schweinfurth, Dr. G. (Aegyptus, Africa centralis, Socotra)
 cfr. Müll. Egypt., id. L. B. in Flora, id. Diagn. Socot. et
 Balf. Bot. Socot.,
 Shaw (Africa australis),
 Sieber, Franç.-Guil. (Insula Sancti Mauritii) cfr. Laur. in Linn. 1827,
 v. Siebold (Insula Sanctæ Helenæ),
 Smith, Andreas (Promontorium Bonæ Spei),
 Soyaux (Angola) cfr. Müll. Afr. occid.,
 Steudner (Abyssinia),
Thompson, G. (Insula Fernando Po),
 Thompson, J. W. (Madagascar),
 Thunberg (Promontorium Bonæ Spei) cfr. Thunb. Prodr. Cap.,
 Trabut (Algeria),
Vogel (Insula Sancti Vincentii),
Wawra, Dr. H. (Promontorium Bonæ Spei, Insula Ascensionis)
 cfr. Mass. Cap., Krempelh. Wawra's Reisen,
 Webb, P. Barker- (Insulæ Canariæ) cfr. Webb-Berthelot Hist.
 nat. Canar.,
 Welwitsch, F.-R. (Benguella) cfr. Nyl. Angol.,
 Wilms, Dr. (Africa australis) cfr. Müll. L. B. in Flora,
 Wood (Natal),
 Wright (Madera, Promontorium Bonæ Spei) cfr. Tuck. Syn.
 North Am. II,
Zeyher, Karl (Promontorium Bonæ Spei).

Restat ut quorum opera et consiliis in hoc libello conscribendo adjutus sim et in primis beneficio et liberalitate copia Lichenum Africorum mihi sit facta quam plurimas iis gratias agam. Honoris causa hoc loco nomino Dominos Arnold, Baglietto, Brefeld, Flagey, MacOwan, Nylander, Schinz, Wainio nec non eos qui collectiones privatas vel publicas, quas aut ipsi possident aut iis præsent, ut coram inspicerem liberalissime permiserunt.

Duos viros et hujus generis curarum mearum studiosissimos Dominos Professore H. Lojka Budæ-Pesthi et reverendissimum D^{rem}. Lahm, Capitularem Cathedralis Mun-

steri vehementer doleo jam vita excessisse priusquam hic libellus in lucem prodiret. Spero equidem hæc in genere Lichenologico clarissima nomina memoriæ posteritatis usque consecrata fore.

ENUMERATIO SPECIERUM.

1. Gonionema velutinum (Ach. Syn. p. 329) Nyl. Prodr. p. 16. — Super saxa quartzosa in Guinea LibERICA prope MonroviAM: Naumann. — Extra Africam etiam in Europa et in ins. Puertorico.¹

2. Siro-siphon saxicola Naeg. in Kütz. Spec. Alg. p. 316. — Supra saxa quartzosa ad Port Natal: Armstrong-Mackenzie et supra saxa arenaria in summo Monte Leonis prope Kapstadt: MacOwan. — Etiam in Europa.

3. S. pulvinatus Bréb. in Kütz. l. c. p. 317. — Supra terram glareosam prope Philippeville Algeriæ 50 m: Flagey. — Etiam in Europa.²

4. Cryptothele africana Müll. in Flora 1879 p. 292. — Supra saxa micaceo-gneissica in collibus Baginse territorii Nyamnyam: Schweinfurth. — Lichen Africanus endemicus.

5. Pyrenopsis Mackenziei Jon. in Nyl. Nat. p. 3. — Supra saxa quartzosa ad Port-Natal: Armstrong-Mackenzie. — Endem.

6. Ephebe pubescens (Ach. L. U. p. 610) Fr. S. O. V. p. 256. — In Algeria et in stillicidiis saxosis summi Montis Leonis prope Kapstadt: MacOwan. — Etiam in Europa, Austr., Amer. sept. et Grœnlandia.

¹ De *Scytonematis* specie non rite evoluta ad Promontorium viride cfr. Cromb. Chall. p. 211.

² De *Siro-siphonis* specie non rite determinanda ad Promontorium Bonæ Spei cfr. Cromb. Cap. p. 166.

(Synalissa)

7. **Synalissa minuscula** Nyl. Ang. p. 3. — Supra saxa micaceo-schistosa prope Ponungalo in Benguella: Welwitsch. — Endem.

8. **S. nitidula** Müll. in Balf. Bot. Soc. p. 344. — Callicola in insula Socotra: Balfour. — Endem.

9. **S. symphorea** (DC. Fl. Fr. II p. 382) Nyl. Prodr. p. 18. — Supra saxa calcaria Algeriæ et supra terram arenosam in El Kantara Saharæ: Norrlin. — Europ., Amer. sept., Fret. Bering.

10. **S. arabica** Müll. in Flora 1884 p. 465. — Terricola supra saxa prope Adfe in deserto arabico: Schweinfurth. — Endem.

11. **S. coralloides** (Mass. in Flora 1856 p. 213) Müll. Lich. Gen. p. 81. — Supra saxa calcaria humida prope Constantine in Algeria: Flagey. — Europa.

12. **Omphalaria Girardi** DR.-Mnt. Alg. p. 199. — Super saxa calcaria in Algeria circa Constantine et Oran: Flagey, Durieu. — Europa, Amer. sept.

13. **O. nummularia** DR.-Mnt. l. c. p. 200 p. p., Nyl. Alg. p. 320. — Supra saxa calcaria prope Oran: Durieu, prope Biskra et El Kantara in Sahara: Norrlin. — Gall. merid. — Var. **cæspitosa** Nyl. l. c. p. 308 et Syn. I p. 100. — Prope Constantine et Biskra: Balansa. — Endem.

14. **O. tiruncula** Nyl. in Flora 1878 p. 238. — Supra lapides prope Biskra et El Kantara in Sahara: Norrlin. — Endem.

15. **O. nummularioides** Nyl. Alg. p. 321. — Supra rupes calcarias prope Constantine in Algeria: Balansa. — Endem.

16. **O. pulvinata** (Schaer. Spic. p. 544) Nyl. L. P. 103. — Supra rupem fontem obtegentem in medio montis Sinai: Ehrenberg et supra saxa calcaria prope Constantine in Algeria: Flagey. — Europ., Turcomania.

17. **Collema lepideum** Nyl. Syn. I p. 105. — Supra terram sabulosam in insula Sancti Vincentii: Vogel. — Endem.

18. **C. fuliginellum** Nyl. Ang. p. 4. — Supra saxa micaceo-schistosa prope Ponungalo Benguellæ: Welwitsch. — Endem.

19. **C. granosum** (Wulf. in Jacq. Coll. III t. 10 f. 2) Nyl. in Stzb. L. H. Add. II No. 37. Syn. *C. ceranoides* (Borr.) Nyl. in Flora 1878 p. 342. — Supra terram sabulosam prope El Kantara in Sahara: Norrlin. — Europ., Amer. sept., Fret. Bering.

20. **C. flaccidum** Ach. Syn. p. 322 varr. **subnigrescens** et **levis** Müll. Diagn. Soc. p. 1. — Supra ramulos in insula Socotra 800—1000 m: Schweinfurth. — Endem. — Var. **subfurvum** Müll. l. c. p. 2. — Ibidem 1250 m: Balfour et Schweinfurth. — Endem.

21. **C. furvum** Ach. L. U. p. 650. — Saxicola in Algeria: Durieu, Flagey. — Europ., Japon., Amer. sept., Fret. Bering. — F. **conchilobum** (Fw. Collem. p. 160, Krb. S. L. G. p. 407) Müll. Egypt. Suppl. p. 4. — Calcicola in Aegypto submediterranea: Barbey. — Europ.

22. **C. melænum** Ach. l. c. p. 636. — Supra saxa calcaria in Algeria: Durieu, Flagey, prope Batna in Sahara: Norrlin et in insula Madera: Mandon Mad. 48. — Europ., Amer. sept., Fret. Bering. — F. **marginale** (Huds. Fl. Angl. p. 534) Ach. l. c. p. 637. — Supra saxa humida prope Constantine: Flagey. — Europ. — F. apotheciis ciliato-crenulatis ad Sidi-Mecid prope Constantine: Flagey. — Endem.

23. **C. polycarpon** (Schaer. l. c. p. 532, Nyl. Syn. I. p. 109) Krb. Pg. p. 417. — Supra saxa calcaria in Oran: Balansa et prope Constantine: Flagey. — Europ. — Var. **Corcyrense** Arn. in Flora 1887 p. 152. — Prope Constantine: Flagey. — Europ. merid.

(Collema)

24. C. cristatum (L. Spec. p. 1610) Nyl. in Lamy Cat. p. 3. — In insula Borbonia. — Europ.

25. C. pulposum Ach. Syn. p. 311. — Supra terram et saxa calcaria in Algeria et in Aegypto submediterranea. — Europ., Asia, Amer. sept. — Var. **granulatum** (Ach. l. c. p. 312) Schaer. l. c. p. 538. — Supra terram prope Constantine: Flagey. — Europ. — Var. **crustaceum** Schaer. l. c. p. 539. — Calcicolum in Aegypto mediterranea: Barbey et in monte Sinai: Ehrenberg. — Mons Sancti Bernhardi.

26. *C. pulposulum Nyl. Aeg. p. 1. — Supra terram montis Sinai: Ehrenberg; in deserto As-char Aegypti: Schweinfurth. — Endem. — Var. **pulvinatum** Nyl. l. c. p. 2. — Supra terram sabulosam nudam ad Bir-Hammam inter Alexandriam et desertum Lybicum: Ehrenberg et in deserto As-char: Schweinfurth. — Endem.

27. C. crispum (Huds. l. c. p. 447) Hffm. D. F. II p. 101, Ach. l. c. p. 311. — Supra terram humosam prope Constantine: Flagey, in insula Madera: Fritze. — Europ., Amer. sept.

28. C. concinnum Fw. l. c. p. 157. Syn. *C. pulposum* DR.-Mnt. (l. c. p. 205 p. p.). — In Algeria. — Europa.

29. C. tenax Ach. L. U. p. 635. — Supra terram ad Alger (Nyl. in lit.) et in Monte Tabulari ad Promontorium Bonæ Spei: Eaton. — Europ., Amer. sept., Fret. Bering., Brasil.

30. C. limosum Ach. l. c. p. 629. — Supra terram prope Keren in Abyssinia septentrionali: Beccari. — Europ., China, Amer. sept.

31. C. cheileum Ach. l. c. p. 630. — Supra terram et lapides calcarios in Algeria. Sterile et nonnihil dubium prope Biskra in Sahara: Norrlin. — Europ. — Var. **Metzleri** Hepp Fl. E. 924, Nyl. in Flora 1886 p. 465. Syn. *C. platycarpum* DR.-Mnt. l. c. p. 203. — Supra laterem vetustum in monte Gurayah prope Bougie Algeriæ: Durieu. — Europa.

32. C. ferax DR.-Mnt. l. c. p. 206, Mnt. Syll. p. 377, Nyl. l. c. 1886 p. 465. — Supra terram inter muscos montis Buzareah Algeriæ: Durieu. — Endem.

33. C. verruciforme (Ach. l. c. p. 650) Nyl. Prodr. p. 23. — Corticicola in Teneriffa: Despréaux. — Europ., Amer. sept.

34. C. redundans Nyl. Nat. p. 4. — Corticicola in Port-Natal: Armstrong-Mackenzie. — Endem.

35. C. nigrescens Ach. l. c. p. 646. — Super truncos arborum in Algeria, Abyssinia, Schoa, Madagascar, Madera. — Europ., Asia, Austral., Polynes., Amer. — F. **glaucocarpa** Nyl. Add. Boliv. p. 367. — In Algeria: Letourneux. — Endem. — Var. **cæsium** (Clem. Ens. add. p. 303) Ach. Syn. p. 321. — In Teneriffa. — Hispan., Java, Amer. sept.

36. C. Robillardii (Müll. in Flora 1877 p. 471). — Corticicola in insula Sancti Mauritii: de Robillard. — Endem.

37. C. aggregatum (Ach. L. U. p. 648) Nyl. Alg. p. 318. — In Algeria: Durieu et in insula Borbonia. — Europ., Asia, Polynes., Amer.

38. C. thysanæum Ach. l. c. p. 651. — Supra saxa montis Dschebel Edugh in Algeria: Letourneux. — Corticicola in Promontorio Bonæ Spei: Breutel. — Europ., Java, Polynes., Nov.-Zel.

39. C. thysanæoides Nyl. in Cromb. East. As. p. 50. — In insula Madera: Mandon Mad. 16. — Malacca.

40. C. multipartitum Sm. E. B. t. 2582, Nyl. Syn. I p. 116. — Saxicola prope Constantine in Algeria: Flagey, supra saxa calcaria in insula Socotra (sterilis et non omnino certa): Balfour. — Anglia, Scotia, Hibernia, Amer. sept.

41. Dichodium byrsinum (Ach. Meth. p. 222) Nyl. Nat. p. 4. — Supra cortices et muscos in Sierra Leone: Afzelius, ad Port-Natal: Armstrong-Mackenzie, in insulis

(Dichodium)

Johanna: Hildebrandt et Borbonia. — Asia, Austr., Polynes., Amer. calida.

42. D. subluridum Nyl. (Exot. p. 256) in Flora 1867 p. 193. — In Promontorio Bonæ Spei: Breutel et in insula Madagascar: Hildebrandt. — Java.

43. Homodium albociliatum (Desmaz. in Ann. Sc. nat. IV p. 132) Nyl. l. c. 1884 p. 391. — In fissuris saxorum calcariorum ad Sidi-Mecid prope Constantine: Flagey. — Europ. merid., Amer. sept. pacific.

44. H. pernigratum Nyl. in Bull. Soc. Brot. III p. 130. — In Africa occidentali: Newton. — Endem.

45. Leptogium lacerum (Sw. in N. Act. Ups. V p. 4) Fr. Scan. p. 293. — In Algeria. — Europ., Amer. sept.

46. *L. pulvinatum (Hffm. l. c. p. 104) Nyl. in Flora 1878 p. 345. — In fissuris rupium ad Sidi-Mecid prope Constantine: Flagey et terrestre circa Batna in Sahara: Norrlin. — Europa.

47. *L. lophæum (Ach. L. U. p. 651) Nyl. in Stzb. L. H. No. 76. — Supra terram in Algeria: Durieu. — Europa.

48. L. sinuatum (Huds. l. c. p. 506) Mass. Mem. p. 88. Nyl. in Lamy Cat. p. 7. — Inter muscos in Algeria: Durieu, Flagey. — Europ., Nov.-Zeland.

49. L. tremelloides (Ach. l. c. p. 655) Fr. Scan. p. 293. — Inter muscos in Schoa: Antinori, Transvaalia: Wilms. ad Promontorium Bonæ Spei: Zeyher, Eaton, MacOwan, in insulis Sancti Mauritii, Rodriguesii: Balfour, Borbonia, Sanctæ Helenæ: Burchell, Melliss et Maderæ: Mandon (Mad. 20). — Europ., Asia, Austral., Polynes. et Amer. utraque.

50. *L. pichneum (Ach. Syn. p. 343) Nyl. Ins. Guin. p. 7. — Super *Coffeas* prope Saudade in insula Sancti Thomæ 750 m: Newton et saxicola in insula Principis: Quintas. — Nov. Holland. et Amer. sept.

51. *L. azureum (Sw. Fl. Ind. occ. 3 p. 1895) Mnt. Cub. p. 114. — In Schoa: Antinori, ad Promontorium Bonæ Spei, in insulis Borbonia, Madagascar, Sancti Thomæ, Canariis et Madera: Mandon (Mad. 17). — Zeylan., Manila, Austral., Polynes., Amer. utraque.

52. *L. marginellum (Sw. l. c. p. 1896) Mnt. l. c. p. 115. — In Promontorio Bonæ Spei: Gueinzius, in Schoa: Antinori, in insulis Johanna: Hildebrandt, Borbonia, Sancti Vincentii (Herb. Tayl.). — Inss. Andaman, Java, Austral., Polyn., Amer. utraque.

53. L. diaphanum (Sw. l. c. p. 1895) Mnt. in Nyl. Syn. I p. 125. — Sterile in monte Scheheli insulæ Socotra 1250 m: Schweinfurth, inter muscos in insula Ascensionis, ca. 600 m socium *Physciæ leucomelanos*: Naumann — Inss. Philippin., Polynes., Amer. calidior.

54. L. palmatum (Huds. l. c. p. 535) Mnt. Can. p. 128. — In Algeria et in insulis Canariis. — Europ., Calif.

55. L. Hildenbrandii (Gar. Delect. II p. 33) Nyl. Prodr. p. 26. — Corticicola in Natalia: Armstrong-Mackenzie, Rehmann et in Transvaalia: Wilms. — Europ. temperat., Amer. sept., Boliv.

56. L. Menziesii (Ach. L. U. p. 645) Mnt. Chil. p. 223. — Supra cortices et inter muscos in Promontorio Bonæ Spei: Drège, Port-Natal: Gueinzius, Cafraria: Baur, Schoa: Antinori et in monte Scheheli insulæ Socotra 1250 m: Schweinfurth. — Asia, Amer. calida. — **F. fuliginosum** Müll. l. c. 1889 p. 60. — Ad Promontorium Bonæ Spei: MacOwan. — Himalaya, inss. Sandw.

57. L. chloromelum (Sw. l. c. p. 1862) Nyl. Syn. I. p. 128 var. **crassius** Nyl. Nat. p. 4. — Corticicola in Port-Natal: Armstrong-Mackenzie. — Endem. — Var. **cæspitosum** (Tayl. in Hook. Journ. Bot. 1847 p. 196) Müll. l. c. 1887 p. 269.

(Leptogium)

Syn. *L. chloromel.* v. *lævius* Nyl. Boliv. p. 369. — In sylvis montanis prope Uitenhagen ad Promontorium Bonæ Spei. — Bolivia.

58. *L. Brebissonii* (Del. Hb.) Mnt. Can. p. 130. — Supra saxa et cortices, etiam inter muscos in insulis Canariis et Madera: Mandon. — Gallia occ., Corsica, Ind. or., Tahiti, Surinam.

59. *L. chloromeloides* Nyl. Nat. p. 4. — Corticicola in Port-Natal: Armstrong-Mackenzie. — Endem.

60. *L. bullatum* (Ach. Prodr. p. 137) Nyl. Syn. I p. 129 yar. ***dactylinoideum*** Nyl. l. c. — Teste Strt. Add. in Africa australi. — Bolivia.

61. *L. adpressum* Nyl. l. c. p. 131. — Teste Strt. Add. corticicola in Africa australi. — Mexico.

62. *L. inflexum* Nyl. in Flora 1858 p. 377. — Ramulicola in monte Camerun 2500 m: Mann. — Ins. Sancti Pauli, Amer. calida.

63. *L. Burgessii* (Lightf. Scot. p. 827) Mnt. l. c. p. 129. — In monte Camerun 3000 m, in insulis Borbonia, Canariis et Madera (Mand. Mad. 35). — Europ., Asia, Nov.-Zel., Amer. sept. et centr.

64. *L. Schraderi* (Bernh. in Schrad. Journ. 1799 I p. 22) Nyl. Alg. p. 318. — In Algeria. — German., Gallia.

65. *L. cæspitellum* Nyl. (l. c. p. 318) Syn. I. p. 133. — Supra terram muscosam prope Oran in Algeria: Balansa. — Endem.

66. *L. muscicola* (Sw. in N. Act. Ups. 4 p. 248) Fr. l. c. p. 293). — Inter muscos supra rupes in Algeria: Durieu. — Europ., Amer. sept.

67. *Stephanoporon phyllocarpum* (Pers. in Gaud. Uran. p. 204) Mnt. Chil. p. 121. — Truncicola in Africa occidentali et australi, in insulis Borbonia et Madagascar.

— Asia trop., Polynes., Amer. calid. — Var. **isidiosum** Nyl. Syn. I p. 130. — Teste Strt. Add. in Africa australi. — Austral., Amer. calidior. — Var. **macrocarpum** Nyl. l. c. — In insula Madagascar: Hildebrandt. — Zeylan., Amer. calida. — Var. **dædaleum** (Fw. in Schimp. It. Abyss. 432) Nyl. l. c. — Super truncos arborum in Abyssinia: Quartin-Dillon et Petit, Schimper, Beccari, Antinori; in Transvaalia: Rehmann. — Tahiti.

68. Leptogidium dendriscum Nyl. (l. c. p. 135) in Flora 1873 p. 195. — Supra filices herbaceas in insula Borbonia. — Hibernia, Polynes., Amer. intertrop., Florida.

69. Collemopsis pelia (Strt. in Linn. Journ. Bot. XIV) Cromb. Chall. p. 311. — Supra thallum *Lecanoræ pyraceutæ* ad saxa Promontorii viridis (sterilis et incerta): Moseley. — Endem.

70. C. numidella Nyl. l. c. 1878 p. 338. — Supra lapides calcarios molles prope Biskra in Sahara: Norrlin. — Endem.

71. C. quinquetubera (Delile Egypt. p. 157) Müll. Egypt. p. 8). — Prope apicem pyramidis secundæ Gizeh: Delile, supra calcem in Aegypto submediterranea: Barbey. — Endem.

72. Anema exiguum Müll. Diagn. Socotr. p. 1. — Calci-
cola in insula Socotra: Balfour. — Endem.

73. A. nummularium (Duf. Hb.) Nyl. l. c. 1879 p. 354. — Super saxa calcaria in Algeria: Durieu, Balansa. — Gallia merid., Hispania.

74. A. plicatissimum Nyl. l. c. 1878 p. 342. — Sterile modo lectum supra arenam prope El Kantara in Sahara: Norrlin. — Endem.

75. Collemodium microphyllum (Ach. L. U. p. 630) Nyl. in Lamy Cat. p. 5. — Corticicola in Algeria. — Europ., Amer. sept.

(Collemodium)

76. C. plicatile (Ach. l. c. p. 635) Nyl. l. c. — Supra saxa in Algeria. — Europ., Amer. sept.

77. C. subplicatile Nyl. in Flora 1875 p. 297. — Prope Constantine in Algeria: Flagey. — Europa.

78. Obryzum corniculatum Willr. Fl. Germ. II p. 296. — Inter muscos prope Constantine: Flagey. — German., Gall., Britan.

79. Myriangium Duriei Mnt.-Berk. in Hook. Journ. Bot. 1845 p. 72. — Supra corticem *Lentisci* in Algeria: Durieu. — Europ., Austral., Amer. utraque.

80. Trachylia tympanella (Ach. l. c. p. 233) Fr. l. c. p. 282. — Supra lignum *Cedri* in montibus Algeriensibus prope Aurès: Cosson. — Europ., Calif.

81. T. minutula (Bagl. Abyss. p. 249). Sporæ ad septum constrictæ, longit. 0,01, crassit. 0,004-6 mm. — Supra ligna prope Keren in Abyssinia: Beccari. — Endem.

82. Calicium leucinum Müll. l. c. p. 2. — Lignicolum in insula Socotra: Balfour, Schweinfurth. — Endem.

83. C. hyperelloides Nyl. Syn. I p. 153. — Super corticem *Ericæ arboreæ* loco dicto San Diego in insula Teneriffa: Bourgeau. — Lusit.

84. C. pusillum Flk. D. L. 188. — In montanis Algeriæ super corticem *Quercus ballotæ*: Balansa. — Europ., Amer. sept.

85. Sphinctrina turbinata (Pers. Tent. disp. Fung. suppl. p. 59) Fr. S. V. Sc. p. 366. — In Algeria: Durieu. — Europ., Amer. sept., Fret. Bering.

86. *S. meridionalis. Apothecia nigra nitentia globosa semi-immersa longit. 0,10-15 mm. Sporæ globosæ diam. 0,005-6 mm. Gelatina hymenea iodo leviter cœrulescens, thecæ lutescentes. — Supra thallum *Lecideæ crassæ* (Nees) in Hotentott Hollands Bergen prope Lawripass Africae australis: MacOwan. — Endem.

87. S. fuscescens Nyl. l. c. p. 143. — Supra corticem arborum in Promontorio Bonæ Spei: Drège. — Endem.

88. S. microcephala Nyl. L. P. 5. — Supra corticem arborum in Africa australi: Wilms, in insulis Madera: Mandon et Socotra: Schweinfurth. — Europ. media et submediterr., Zeylan., Amer. sept.¹

89. Sphærophoron compressum Ach. Meth. p. 135. — In Promontorio Bonæ Spei et insulis Africæ australis præsertim in Madagascar, Borbonia, etiam in insulis Fernando Po et Sancti Thomæ. — Europ., Asia, Austral., Polynes., Amer. utraque.

90. S. australe Laur. in Linn. 1827 p. 44. — In Madagascaria: Hildebrandt. — Zeylan., Java, Austral., Polynes., Amer. australis.

91. S. coralloides Pers. in Ust. N. Ann. I p. 23. — Supra truncos vetustos *Ericæ arboreæ* in insula Madera 1500 m: Holl, Jelinek; etiam corticicola in Canariis et (non-nihil incertum) in insula Sancti Thomæ: Moller. — Europ., Austral., Amer. utraque.

92. S. madagascareum Nyl. apud Cromb. in Linn. Soc. Journ. Bot. XV p. 409. — Prope Antananarin in Madagascar: Pool, super ramulos ad Andrangolvaka: Hildebrandt. — Endem. — *Pleurocybe Hildebrandtii* Müll. in Flora 1884 p. 614 sine dubio idem est.

93. Bæomyces roseus Pers. l. c. p. 19. — Supra terram in monte Spitzkop prope Lydenburg in Transvaalia: Wilms. — Europ., Amer. sept.

¹ *Coniocybe MacOwaniana* Krb. in Arn. exs. 817, corticicola ad Promontorium Bonæ Spei et *Cyphelium mammosum* Hepp in Hartung Lanzarot. p. 147 in numerum Fungorum transferenda sunt. Ulterius monente Nyl. in lit. *Gassicurtiam siliceam* Fée sistit.

(Bæomyces)

94. B. fungoides (Sw. Fl. Ind. Occ. 3 p. 1886) Ach. Meth. p. 320. — Supra terram montium in insulis Madagascar: Pervillé et Borbonia. — Java, Nov.-Zel., Amer. tropic.¹

95. Siphula tabularis (Thunb. Prodr. Cap. p. 176) Nyl. Syn. I. p. 263. Syn. *Siphula Dregei* Laur. Hb. et *Dufouria plumbea* Tayl. l. c. p. 184. — Supra lapides plerumque irrigatos in rivis planitiei summi Montis Tabularis ad Promontorium Bonæ Spei socia *Dirinæ capensis*: Thunberg, Ecklon, Zeyher, Eaton, Jelinek, MacOwan. — Thallus K luteus. *Dirinæ capensi* Fée epithallus K (CaCl) rubescit. — Endem.

96. S. torulosa (Thunb. l. c. p. 177) Nyl. l. c. Thallus K flavens. — Saxicola in montibus Promontorii Bonæ Spei et in insula Borbonia. — Austral., inss. Sandwich.

97. Stereocaulon salazinum Bory Voy. p. 106, Nyl. l. c. p. 233. — Supra saxa insularum Sancti Mauritii et Borboniæ. — Endem.

98. S. Richardianum Mnt. Hb., Fr. fil. Stereoc. p. 44. — In insula Sancti Mauritii. — Endem.

99. S. sphærophoroides Tuck. En. lich. Amer. p. 52. — Supra saxa vulcanica in montuosis insularum Fortunatarum ut Madera (Mand. Mad. 49, Hepp 305), Teneriffa (Bourgeau Can. 1594), Canaria etc. — Amer. sept.²

100. S. proximum Nyl. l. c. p. 237. — Supra saxa et terram in insulis Comoreis: Boivin. — Japon., inss. Societ., Nov.-Zeland.

¹ *B. rufus* (Huds.) DC. in Algeria vix deest. Cfr. Nyl. Prodr. p. 35.

² *Stereoc. ramulosum* Ach. Meth. p. 314, Nyl. Syn. I. p. 235, quod in meo herbario est, a Dom. Chamisso in insula Teneriffa erat collectum. Quod quidem an Teneriffæ inventum non sit dubito. Satius est hanc speciem in Lichenibus Africis silentio præterisse.

101. *S. mixtum Nyl. l. c. p. 238. — Supra terram in insula Tristan d'Acunha. — Inss. Sandwich., Nov.-Zel., Amer. centr. et austral.

102. *S. assimile Nyl. Exot. p. 251. — Supra saxa montium editissimorum insulæ Borboniæ. — Inss. Sandwich.

103. S. paschale (L. Suec. p. 1153) Ach. Meth. p. 315. — Supra saxa editiora Boream spectantia insulæ Maderæ. — Europ., Asia, Zeylan., Amer. sept.

104. S. denudatum Flk. D. L. 79. — Supra saxa et terram montis Camerun 3600 m: Mann et in insula Madera: Mandon (Mad. 44). — Europ., Asia, Amer. sept., Fret. Bering.

105. *S. Vesuvianum Pers. in Act. Wetter. 2 p. 19. — Super saxa basaltica montium editissimorum insulæ Teneriffa: Hartung (Hepp Fl. E. 2), super scorias vulcanicas insularum Lanzarote et Pico: idem et Husnot, nec non in insulis Madera: Heer, Hartung et Azoreis: Hartung. — Europ. mitior.

106. *S. Vulcani (Bory Voy. 3 p. 147) Ach. L. U. p. 583, Nyl. Syn. I p. 248. — Supra scorias vulcanicas in insula Borbonia: Bory. — Endem.¹

107. S. turgescens Nyl. l. c. — Supra saxa et terram montis Camerun in Guinea: Mann. — Java.

108. S. Maderense Tuck. in Wilkes Exp. XVII, Crypt. p. 122 et Syn. North Amer. II p. 154. — In insula Madera. — Endem.

109. Leprocaulon nanum (Ach. Meth. p. 315) Nyl. in Flora 1876 p. 578. — Supra terram in fissuris rupium Algeriæ: Durieu et in Serra d'Agoa insulæ Maderæ: Fritze — Europ., Austral., Amer.

¹ *Stereoc. Meyeri* Stein Afric. (seorsim impr.) p. 2 sterile super scorias vulcanicas in monte Kilimandscharo 3—5000 m (l. Hans Meyer) species bona et autonoma esse videtur. Thallus K + flavet.

(Leprocaulon)

110. L. arbuscula Nyl. (Syn. I p. 253) Ins. Guin. p. 8. — Saxicola in insula Sancti Thomæ 850 m: Newton. — Himalaya.

111. Pilophoron aciculare (Ach. l. c. p. 328) Tuck. Syn. New Engl. p. 47. — Supra terram et saxa Promontorii Bonæ Spei (Hb. Hook. teste Nyl.). — Austral., Amer. sept. pacif., Fret. Bering.

112. Cladonia endiviæfolia (Dicks. Pl. crypt. 3 p. 17) Fr. L. E. p. 212. — Locis aridis et campestribus in Africa boreali. — Europ. merid., Taurica. — „In Africæ desertis una cum *Lecanora lentigera* f. *deserti* ex observationibus illustriss. Ehrenbergii præcipuum Antilopis offert pabulum“ Fr. l. c.

113. C. alcicornis (Lightf. l. c. p. 872) Flk. Clad. p. 23. — Supra terram in campis apricis sterilibus et in ericetis Africæ borealis frequens. — Europ., Japon., Amer. sept.

114. C. firma Nyl. (Syn. I p. 191) in Bot. Zeit. 1861 p. 352. — In campis aridis Algeriæ et in insula Madera: Mandon. — Europa mediterr., Dania.

115. C. ceratophylla (Sw. l. c. p. 1914) Eschw. Bras. p. 280. — In insulis Borbonia: Lepervanche et Tristan d'Acunha: Milne. — India orient., Austral., Amer. calidior.

116. C. pyxidata (L. Spec. p. 1619) Fr. l. c. p. 216. — In montibus Simensibus Abyssiniæ: Schimper, in Algeria, in Promontorio Bonæ Spei: Drège, Breutel et in insula Madera. — Europ., Asia, Nov.-Zel., Amer. — F. **staphylea** (Ach. Meth. p. 339) Nyl. Scand. p. 50. — In Promontorio Bonæ Spei: Breutel. — Europ., Java, China. — Var. **pocillum** (Ach. l. c. p. 336) Nyl. Syn. I p. 193. — Locis apricis prope Alger: Bové, Paris (Rbh. L. E. 840), prope Constantine: Flagey, in Promontorio Bonæ Spei: Jelinek et in insula Madera. — Europ., Amer. sept. et centr. — Var. **chlorophæa** (Flk. in Smmrf. Suppl. p. 130) Schaer. Spic. p. 290. — Supra terram

inter muscos in insulis Sanctæ Helenæ: Melliss et Teneriffa.
— Europ., Austral., Nov.-Zel., Terra Kerguel., Amer. utraque a
Fret. Bering. ad Fret. Magellan.

117. **C. pityrea** (Flk. in Berl. Mag. II p. 282) Fw. Lich.
Fl. S. I p. 107, Nyl. in Flora 1873 p. 299. — Supra terram
siccā Montis Tabularis in Promontorio Bonæ Spei: Jelinek
et in insula Sanctæ Helenæ: Melliss. — Europ., Zeylan., Nov.-
Zel., Amer. utraque. — F. **scyphifera** (Del.) Wain. in lit. —
Ad Kooksbosch in Promontorio Bonæ Spei: Breutel. — Europ.

118. **C. cariosa** (Ach. Prodr. p. 198) Nyl. Syn. I p. 194.
— Supra terram glareosā prope Philippeville in Algeria
50 m: Flagey. — Cosmopol., rarior in terris calidis.

119. **C. fimbriata** (L. Spec. p. 1152) Hffm. l. c. p. 122.
— In Abyssinia, Algeria, Guinea 2000—3000 m, ad Pro-
montorium Bonæ Spei et in insulis Johanna: Hildebrandt,
Borbonia, Sanctæ Helenæ: Burchell, Madera. — Cosmopol.
— Var. **tubæformis** (Hffm. l. c.) Fw. l. c. — In Africa
australi. — Europ., Nov.-Zel., Amer. sept. — Var. **fibula**
(Hffm. l. c. p. 127) Schaer. En. p. 190. — In Promontorio
Bonæ Spei. Podetiis squamuligeris super arborum corticem
prope Baziya: Baur. — Europ., Nov.-Zeland., Antill., Bermudas.
— F. **abortiva** (Flk. D. L. 51) Fw. l. c. — In Transvaalia:
Rehmann. — Europ. — Var. **radiata** (Schreb. Fl. Lips. p. 122)
Fr. l. c. p. 223. — In Africa australi: Breutel, MacOwan
et in insula Borbonia. — Europ., Asia, Nov.-Zel., Amer. —
F. **nemoxyna** (Ach. Meth. p. 342) Fw. l. c. — In ericetis
Montis Tabularis: Jelinek (Novara-Exp. 314). — Eur., Nov.-
Zel. — Var. **tenella** Müll. Afr. occ. p. 31. — Supra radices et
basin truncorum arborum secus Banya in regione Loango:
Peschuel-Loesche. — Endem. — Var. **chondroidea** Wain.
MS. — In Transvaalia: Wilms. — „In hemisph. australi late
distributa“ Wain. in lit. — F. **chlorophæoides** Wain. MS.

(Cladonia)

— Supra terram prope Elim in Africa australi: Breutel.
 — Distr. sicut v. chondroidea. — **F. Balfourii** (Cromb. Rodr. p. 433) Wain. MS. — Supra truncos emortuos arborum in insula Rodriguesii: Balfour. — Endem. — Var. **pulverulenta** (Del.) Müll. in Flora 1884 p. 619. — In insula Madagascar: Hildebrandt. — Europ., Puertorico, Paraguay.

120. ***C. chordalis** (Ach. L. U. p. 545) Nyl. Nov.-Zel. p. 18. — In summo Monte Tabulari. — Europa, Nov.-Zel.

121. ***C. borbonica** Del. MS., Nyl. Syn. Nov.-Cal. p. 9. — In insula Borbonia. — Nov.-Caled., Brasil.

122. ***C. subcornuta** Nyl. in Flora 1874 p. 318. — Supra terram in Monte Tabulari ad Promontorium Bonæ Spei: Eaton. — Europ., ins. Campbell.

123. **C. ochrochlora** Flk. Clad. p. 75. — Ad Torinhas in insula Madera: Fritze. — Europ., Nov.-Zel., Amer. austr.

124. **C. centrophora** Müll. l. c. 1887 p. 286. — Sterilis tantum cognita e Monte Tabulari ad Promontorium Bonæ Spei: Wilms. — Endem.

125. **C. gracilis** Hffm. l. c. p. 119. — In Algeria: Durieu. — Europa, Asia, Austral., Amer. utraque. — Var. **aspera** Flk. l. c. p. 40. — In insula Borbonia. — Europ.

126. ***C. sobolifera** (Del. in Dub. Bot. Gall. p. 631) Nyl. l. c. 1866 p. 421. — Supra terram sterilis et parum involuta in insulis Azoreis: Moseley. — Europ., Ind. or., Amer. arct., sept. et tropica.

127. ***C. verticillata** (Hffm. l. c. p. 122) Schaer. Spic. p. 31. — In insulis Madagascar: J. W. Thompson et Socotra: Balfour. — Europ., Asia, Austral., Nov.-Zel., Amer. utraque.

128. **C. cervicornis** (Ach. in V. Ak. H. 1801 p. 342) Schaer. En. p. 195. — In Algeria et in insula Madera. — Europ., Asia, Austral.

129. C. decorticata Flk. l. c. p. 10, Nyl. l. c. 1873 p. 299. — Prope Rabacal in insula Madera: Fritze. — Europ., Amer. sept.¹

130. C. degenerans Flk. (in Web.-Mohr Beitr. II p. 308) Clad. p. 41 f. **ramosa** (Bory Hb.) Nyl. Exot. p. 249. — In insula Borbonia: Bory. — Nov.-Caled. — Var. **ceratophyllina** Nyl. l. c. — In muscosis insularum Borbonia: Lepervanche et Madagascar: Hildebrandt. — Endem. — Var. **aphylla** Nyl. l. c. — In insula Borbonia: Richard. — Endem.

131. C. intermediella Wain. Clad. I p. 140. — In monte Pouce insulæ Sancti Mauritii: Ayres. — Species endemica videtur.

132. C. mascarena Nyl. Syn. I p. 189, id. Fueg. p. 30. — In insula Borbonia: Lepervanche. — Endem.

133. C. furcata (Huds. l. c. p. 453) Hffm. l. c. p. 115. — Supra terram in ericetis inter muscos in Algeria, ad Promontorium Bonæ Spei et in insula Borbonia. — Cosmopolita.

134. C. diplotypa Nyl. in Flora 1862 p. 475. — Supra terram in Guinea 2000 m: Mann. — Endem.

135. C. pungens (Ach. Prodr. p. 202) Flk. Clad. p. 156. — Supra terram et truncos putridos in Algeria; locis humidis in Monte Tabulari: Jelinek (Novara-Exp. 303), in insulis Borbonia, Teneriffa, Lanzarote et Madera (Mand. Mad. 45). — Cosmopolit. — F. **foliolosa** Nyl. Scand. p. 56, Rehm Clad. exs. 27. — Prope Constantine: Bentham, Paris (Rbh. L. E. 839), Flagey; in insula Teneriffa: Bourgeau. Eadem squamosa et sorediifera ad Promontorium Bonæ Spei: MacOwan. — Europ., Asia occid. et Jamaica.

¹ *C. macrophylla* (Schaer. Spic. p. 316) Stenh. Vet. Ak. Forh. 1865 p. 231, Nyl. l. c. monente Leight. Great Brit. Ed. III p. 58 (sub *decorticata* Nyl. Syn. I p. 193) in Africa adest.

(Cladonia)

136. C. crispata (Ach. Meth. p. 341) Nyl. Syn. I p. 207
var. **exalbida** Nyl. Exot. p. 249. — In insulis Borbonia:
Richard et Madagascar: Hildebrandt. — Endem.

137. C. Boivini Wain. Clad. I p. 408. — Supra terram
turfosam in insulis Comoreis: Boivin. — Endem.

138. C. squamosa Hffm. l. c. p. 125. — Inter muscos
supra terram, ligna et truncos putridos in Algeria: Durieu,
ad Promontorium Bonæ Spei: Milne, in insula Sancti Mauritii.
— Fere cosmopolita in Europa, Japon., Austral., Amer. sept. et
austr., arct. et antarct.

139. *C. cæspiticia (Pers. in Ust. N. Ann. VII p. 155)
Flk. l. c. p. 8. — Supra terram in summo Monte Tabulari
ad Promontorium Bonæ Spei: Rehmman. — Europ., Java,
Amer. sept.

140. C. insignis Nyl. Syn. I p. 219. — In muscosis eri-
cetorum insulæ Borboniæ: Lepervanche. — Endem.¹

141. C. bellidiflora (Ach. Prodr. p. 194) Schaer. Spic.
p. 21. — Supra terram in insula Madera: Fritze. — In
Europ., Asia et Amer., præsertim in earum partibus frigidioribus.

142. C. deformis (L. Spec. p. 1152) Hffm. l. c. p. 120.
— Ad Poizo in insula Madera: Fritze. — Europ., Asia,
Austral., Polynes., Amer. sept. et antarct.

143. C. digitata (L. l. c.) Hffm. l. c. p. 124. — Supra
terram in insulis Madera et Canariis. — Europ., Asia, Nov-
Zel., Tasman., Amer. utraque.

144. C. bacillaris (Ach. L. U. p. 542) Nyl. Lapp. p. 179.
— In Africa orientali prope Kooksbosch: Breutel et in
Monte Tabulari: Wilms (huc *C. angustata* Hb. Lahm). —
Europ., Asia, Nov.-Zel., Amer. utraque. — F. **cornutula** Nyl.

¹ *C. cornucopioides* (L.) Fr. in Africa nasci non videtur. Cfr.
Wain. l. c. p. 154.

in Boll. Soc. Brot. V, 1888 p. 221. — In insula Principis: Newton. — Endem.

145. C. macilenta (Ehrh. Pl. cr. 267) Hffm. l. c. p. 126. — In Abyssinia: Hildebrandt, Africa australi: Breutel, MacOwan, in insulis Madera (Mand. Mad. 47) et Borbonia. — Europ., Asia, Austral., Polynes., Amer. utraque. — Var. **pulchella** (Schwein. Hb.) Nyl. Syn. I p. 224. — In insula Madagascar: Hildebrandt. — Europ., Amer. sept. — Var. **corticata** Wain. Clad. I p. 112. — Supra terram ad Kooksbosch Africae australis: Breutel. — Saxonia.¹

146. C. muscigena Eschw. Bras. p. 262. — Inter muscos in insula Comorensi Johanna: Hildebrandt et in Borbonia: Lepervanche, Boivin. — Asia tropica, Polynes., Amer. calida in antarcticam usque.

147. *C. sphærulifera (Tayl. in Hb. Hook.) Nyl. l. c. — In insula Sancti Thomæ 775 m: Moller. — Amer. austral.

148. Cladina rangiferina (L. l. c. p. 1153) Nyl. Lapp. p. 110. — In Algeria et in insulis Borbonia, Sancti Mauritii et Madagascar. — Cosmopolita regiones frigidas præamans, minus frequens in zonis temperatis et in montuosis zonæ calidæ. — Var. **crispatula** Nyl. in Flora 1869 p. 117. — In insula Madagascar: Hildebrandt. — Brasil. — Var. **spadicea** (Hepp Hb.) — In insula Madera: Heer, Hartung. — Endem.

149. C. sylvatica (Hffm. l. c. p. 114) Nyl. Lapp. p. 176. — In Algeria: Durieu, ad Promontorium Bonæ Spei: Jelinek, MacOwan et in insula Borbonia: Bory. — Europ., Asia, Austral., Amer. utraque.

150. C. pycnoclada (Gaud. in Ann. sc. nat. V p. 97) Leight. Not. Lich. XII p. 122 p. p., Nyl. Fueg. p. 4. — In Af-

¹ De *Scyphophoro monocarpo* Thunb. Prodr. Cap. p. 180 cfr. Wain. l. c. p. 103.

(Cladina)

rica australi: Milne, MacOwan et in insulis Borbonia: Gaudichaud, Sancti Mauritii: Bojer, Comoreis: Boivin, Humblot. — In regionibus antarcticis et temperatis hemisphaerae australis. — Var. **granulosa** (Nyl. in Hb. Thuret, Wain. l. c. p. 40). — In insula Madagascar: Bernier. — Endem.

151. C. alpestris (L. l. c.) Nyl. Bering. p. 19. — In insulis Teneriffa et Borbonia. — In zona frigida et temperata Europae, Asiae et Amer. sept., etiam in Australia.

152. C. peltasta (Ach. l. c. p. 563) Nyl. in Flora 1866 p. 179. — In insulis Borbonia: Bridel et Comoreis: Boivin. — Amer. calida. — Var. **scyphifera** (Wain. l. c. p. 238). — In insula Borbonia: Boivin. — Endem.

153. C. candelabrum (Bory Voy. 3 p. 103) Nyl. l. c. — In montibus insulae Borboniae: Bory, Lepervanche. — Brasilia.

154. C. divaricata Nyl. (Syn. I p. 214) in Flora 1866 p. 179. — Huc forte referenda *Coralloides furcata* Bory in lit. ad Wallr. ex insula Borbonia: Bory. — Brasilia. — Cfr. Wain. l. c. p. 286.

155. C. gorgonea (Eschw. Bras. p. 271) Nyl. l. c. var. **subrangiferina** (Nyl. Syn. I p. 214). — In insula Borbonia. — Brasilia.

156. C. uncialis (L. l. c.) Nyl. Lapp. p. 111. — In insulis Borbonia: Bory et Madera: Masson. — Cosmopolita, abundantius in zona temperata distributa: Europ., Asia, Austral., Polynes., Amer. utraque.

157. C. medusina (Bory l. c. p. 102) Nyl. in Flora 1866 p. 179. — In insulis Borbonia: Bory, Boivin, Sancti Mauritii: Robillard, Comoreis: Boivin et Madagascar: Hildebrandt. — Nov.-Zel., Brasilia.

158. Cladia aggregata (Sw. Ind. occ. 3 p. 1915) Nyl. Ram. p. 69. — In Africa australi, in insulis Mascarenis,

Madagascar et Sanctæ Helenæ. — In hemisphæra australi latissime distributa, insuper in ins. Jamaica.

159. Heterodea Madagascarea Nyl. Nov.-Zel. p. 21. — Super lignum putridum in insula Madagascar: Baron. — Endem.

160. Ramalina ceruchis (Ach. Meth. p. 260) DN. Framm. p. 45, Nyl. Ram. p. 8. — In monte Corona insulæ Canariensis Lanzarote; in insula Sanctæ Helenæ: Burchell. — Calif., Peruv., Chile.

161. R. debilis Müll. Diagn. Soc. p. 2. — In insula Socotra. — Endem.

162. R. melanothrix Laur. MS., Nyl. Syn. I p. 290. — In Promontorio Bonæ Spei: Drège, A. Schenck. — Endem.

163. R. maculata Müll. in Flora 1877 p. 477. — In Guinea: Willdenow. — Endem. — Var. **tenuis** Müll. l. c. 1879 p. 294. — In ramulis *Spondias* prope Landana: Pechuel-Loesche et prope Monrovia in Guinea Liberica: Naumann. — Endem.

164. R. rigida (Pers. MS.) Ach. Syn. p. 294. — Terricola in Promontorio viridi. — Polynes., Massachus., Ind. occ., Brasilia.

165. R. dendriscoides Nyl. in Flora 1876 p. 412 var. **minor** Müll. Diagn. Soc. p. 2. — Ramulicola in insula Socotra: Schweinfurth. — Endem. — Var. **nodulosa** Müll. l. c. — Saxicola ibidem: Balfour, Schweinfurth. — Endem. — Var. **subnuda** Müll. Gaz. II p. 134. — Corticicola in insula Ascensionis: Naumann. — Endem.

166. R. Arabum (Ach. L. U. p. 596) Mey.-Fw. in N. Act. Leop. XIX, Suppl. I p. 212. — Supra truncos arborum et saxa in Algeria, in Promontorio Bonæ Spei, in insulis

(Ramalina)

Sanctæ Helenæ, Madagascar et Borbonia. — Corsica, Ind. or.,
Nov.-Caled.

167. R. dasypoga Tuck. Suppl. 2 p. 203. — Supra arborum ramos ad Wadi Kischen in insula Socotra 1000 m: Schweinfurth. — Cuba, Brasil.

168. R. gracilis (Pers. in Gaud. Uran. p. 209) Nyl. Syn. I p. 296. — Supra ramos fruticum et arborum in Madagascar. — Austral., Antill., Brasil.

199. R. angulosa Laur. in Nyl. l. c. p. 293, Nyl. Ram. p. 17. — In Promontorio Bonæ Spei: Drège, Ecklon, in montibus insulæ Borboniæ: Bory, in insula Sanctæ Helenæ: Burchell. — Zeylan., Calcutta, Austral., Brasil.

170. R. implectens Nyl. l. c. p. 18. — Fruticicola in maritimis circa Tanger (Hb. Lenormand) et supra truncos *Laurorum* prope las Mercedes in insula Teneriffa: Husnot. — Endem.

171. R. thrausta (Ach. L. U. p. 596) Nyl. Syn. I p. 296 f. *farinaria*. Formæ *sorediosulæ* Nyl. in Lamy Caut. p. 13 analogæ, sed sorediis pure albis, cum in hac alboglauciscentia sint. — Ex insulis Canariis (Hb. Schaer.). — Endem.

172. R. gracilentæ Ach. Hb., Fr. l. c. p. 29. — Supra saxa et arbores in insula Rodriguesii: Balfour. — Asia or., Carolina, Texas, Cuba. — Var. **nodulosa** Cromb. Rodr. p. 434. — Supra saxa unacum typo. — Endem.

173. R. usneoides (Ach. Meth. p. 207) Fr. l. c. p. 468. — Ex arboribus pendula in Algeria: Durieu (Hb. Lojka) et in insulis Borbonia, Sanctæ Helenæ: Siebold et Gorgoneis. — In regionibus calidioribus Asiæ et Americæ necnon in Austral. — Var. **Capensis** Nyl. Ram. p. 25. — In Promontorio Bonæ Spei: Drège et ad flumen Gauritz Africae australis: Breutel. — Endem. — Var. **contorta** Fw. in Hb. Breutel. Thallus

(Ramalina)

contortus, longit. 0,5 m et ultra, latit. ad 0,01 m attingens, ramulis ultimis capillaribus. Sporæ longit. 0,015—17 mm, crassit. 0,004 mm. — Ad flumen Gauritz in Africa australi: Breutel. — Endem.

174. R. denticulata (Eschw. l. c. p. 221) Nyl. l. c. p. 28. — Corticicola prope Landana: Pechuel-Loesche, in Tschamtei territorii Sansibar: Hildebrandt et in Monte Tabulari: MacOwan. — Amer. tropica. — Var. **humilis** Müll. in Flora 1885 p. 500. — Ramulicola ad Tschamtei: Hildebrandt. — Endem. — Var. **fallax** Müll. ib. — Ramulicola ad Maruessa in Duruma: Hildebrandt. — Puertorico.

175. R. complanata (Sw. l. c. p. 1911) Ach. L. U. p. 599. — Corticicola raro saxicola in Abyssinia: Hildebrandt, Transvaalia: Wilms, ad Promontorium Bonæ Spei: Ecklon, Rehmann et in Senegambia. — Austral., Polyn., Amer. calidior.

176. R. canaliculata Tayl. in Hook. Journ. Bot. 1847 p. 188. — Supra ramos arborum in insulis Madagascar, Sancti Mauritii et Rodriguesii. — Ind. or., insulæ Oceani pacif., Amer. austr. — F. **brevior** Cromb. l. c. — Supra ramos arborum in insula Rodriguesii. — Endem.

177. R. calicaris (Hffm. l. c. p. 139) Fr. L. S. exs. 72. — In Africa boreali, Port Natal, in insulis Madera, Teneriffa, Mascarenis. — Europ., Asia, Amer. utraque. — Pharmacopon, quod vulgariter in Aegypto vocant Schæbe, constat maximam partem e *Ramalina calicari*, admixtæ sunt præterea *Evernia furfuracea*, *E. prunastri* et *Physica ciliaris* var. *glaberrima* Bory. Quæ quatuor species Lichenum adhuc in Aegypto non sunt inventæ. *Everniam* utramque Nylander in finitimis montibus nasci censet. *Evernia furfuracea* in Aegyptiacis sepulcris duodevicesimæ dynastiæ (1700—1400 a. Ch.) comparuit. Inde sequitur hanc medicinam in Aegypto inde et ab antiquissimis temporibus continuo usque ad nostram

(Ramalina)

memoriam adhiberi esse solitam. *Physcia ciliaris* var. *glaber-
rima* una in insula Naxo invenitur. Inde Müller-Arg. con-
jecturam facit, Schaebe quod vocant ex hac insula impor-
tatum esse. Cfr. Nyl. Aeg. p. 2 et Müll. in Flora 1881
p. 526 et 1882 p. 318. — Var. **subampliata** Nyl. Ram. p. 34.
— Corticicola in Algeria. — Europ. occid. et merid., Ind. or.

178. R. farinacea (L. l. c. p. 1146) Ach. l. c. p. 606. —
Supra arborum truncos in Algeria: Trabut, Flagey, Abys-
sinia, Africa australi: Baur, Wilms et in insulis Madera,
Principis: Newton, Rodriguesii et Socotra: Schweinfurth. —
Cosmopolita. — **F. pendulina** (Schrad. Journ. I, 1799 p. 59)
Ach. Meth. p. 264. — In insula Rodriguesii. — Europa. —
F. phalerata Ach. l. c. — Corticicola prope Landana in Africa
austrooccidentali: Peschuel-Loesche. — Europ. — **F. ner-
vosula** Müll. l. c. 1883 p. 21. — Prope Tschamtei in ter-
ritorio Sansibar: Hildebrandt. — Asia or., Austral., Polynes.
— **F. squarrosa** Müll. ib. — In Transvaalia: Wilms. —
Queensland.

180. R. subcomplanata Nyl. l. c. p. 36. — Corticicola
in insulis Sancti Thomæ: Moller et Sancti Vincentii. — Ind. or.

181. R. implexa Laur. in Hbb. variis. — Ad Promon-
torium Bonæ Spei: Drège. — Endem.

182. R. fraxinea (L. l. c.) Ach. L. U. p. 602. — In
Algeria: Balansa, ad Promontorium Bonæ Spei: Wawra et
in insulis Canariis. — Cosmopolita. — Var. **striatella** Nyl.
in Flora 1872 p. 546. — Supra corticem *Cedri* in mon-
tiosis ad Blidah prope Alger: Trabut. — Mont. Abruzz. et
Libanon. — Var. **calicariformis** Nyl. Ram. p. 38. — Ad
Prunos in Teneriffa: Bourgeau. — Francon. super., Gallia, Calif.

183. R. fastigiata (Pers. in Ust. N. Ann. I p. 256) Ach.
l. c. p. 603. — Supra truncos arborum in Algeria: Durieu.
— Europ., Asia, Amer. sept.

184. R. subcalicaris Nyl. l. c. p. 40. — In insula Sancti Mauritii. — Arcansas, Mexico.

185. R. subfraxinea Nyl. l. c. p. 41. Cfr. Müll. in Flora 1887 p. 58. — Supra corticem arborum in insulis Sancti Mauritii: Gretan, Borbonia: Boivin, Rodriguesii: Balfour et Canariis. Super saxa ad Muizenberg prope Kapstadt: Mac Owan et prope Lydenburg in Transvaalia: Wilms. — Ind. or., Austral., Polynes., Amer. austr.

186. R. Yemensis Ach. (l. c. p. 602) Syn. p. 296, Nyl. l. c. p. 46. — Supra cortices arborum in Africa australi, in Inaccessible Island et in Madagascar. Etiam in Schoa: Antinori. — In terris calidioribus Asiæ et Americæ necnon in Australia. — F. **membranacea** (Laur. in Linn. 1827 p. 43) Nyl. l. c. p. 47. — In sylvis ad Karkloof in Natalia: Rehmann, in Madagascar. — Amer. calidior. — F. **fenestralis**. Thallo passim fenestrato. — Corticicola in Monte Leonis prope Kapstadt: MacOwan. — Endem.

187. R. lanceolata Nyl. l. c. — In Africa australi: Drège, Breutel, Wilms. — Amer. austr.

188. R. polymorpha Ach. (Prodr. p. 178) L. U. p. 600. — Saxicola in insulis ad Promontorium viride: Bolle et Sanctæ Helenæ: Melliss. — Europ., Amer. sept. — Var. **emplecta** Ach. in N. Act. Acad. Sc. Stockh. XVIII p. 270—282, Nyl. l. c. p. 51. — Saxicola in monte Dedschen Abyssiniæ ca. 4000 m: Schimper. — Suecia, Gallia.

189. R. capitata (Ach. L. U. p. 601) Nyl. in Flora 1880 p. 10. — In monte Bachit Abyssiniæ: Schimper. — Europ.

190. R. pollinaria Ach. (Prodr. p. 178) L. U. p. 608. — Corticicola ad Keren Abyssiniæ septentrionalis: Beccari, in Dschebel Achnar Aegypti: Ehrenberg, in Algeria: Durieu, Flagey et in insulis Madera: Fritze, Sanctæ Helenæ: Melliss;

(Ramalina)

saxicola in insula Caprarum sinus Guineensis: Newton. — Europ., Amer. utraque. — F. **cariosa** Laur. Hb., Nyl. Ram. p. 53. — In Promontorio Bonæ Spei. — Endem.

191. R. vulcania (Mnt. Can. p. 99) Nyl. l. c. p. 53. — Supra scorias vulcanias in insula Canaria. — Endem.

192. R. Bourgæana Mnt. in Bourg. Pl. Can. Syn. *R. Webbia* var. *Capensis* Mass. Cap. p. 46. — Saxicola supra scorias vulcanias in insulis Canariis (Hepp Fl. E. 356) et ad Cabo Girao in insula Madera: Fritze. Sterilis in insula Ascensionis: Wawra. — Ins. Sardin.

193. R. evernioides Nyl. Prodr. p. 47. — Terrestris vel saxicola multis locis in Aegypto: Schweinfurth, in Dschebel Kerona regionis Tunetanæ prope Gabes: Kralik. Deinde sæpiusque corticicola in Africa boreali, prope Lydenburg in republica Transvaal: Wilms et in insulis Canariis: Bourgeau. — Europa merid. et occid., Palæstina.

194. R. maciformis Delile Egypt. p. 388. — In fissuris rupium Aegypti inferioris, in monte Mokattam: Delile et inter Wadi Hof et Wadi Dugla: Schweinfurth. — Europ. merid.

195. R. crispatula Despr. MS., Nyl. Ram. p. 56. — Supra arenam mobilem in Canaria: Despréaux. Deserticola in regione Tunetana prope Gabes: Kralik et in Cyrenaica: Pacho; supra saxa ad Mirsa Tobruk in Cyrenaica: Schweinfurth. — Endem.

196. R. Webbia Mnt. Can. p. 100. — Supra scopulos insulæ Canariæ: Webb et in Teneriffa: Despréaux. — Endem.

197. R. scopulorum (Dicks. Pl. crypt. 3 p. 18) Ach. L. U. p. 604. — Supra scopulos marinos insularum Sanctæ Helenæ: Melliss, Canariarum, Gorgonearum et Maderæ (Mand. Mad. 50). — Europ., Japon, inss. St. Paul. et Sandwich., Amer. sept. — F. **tenuis** Krmplh. in Flora 1868 p. 230. — In

insula Madera. — Endem. — **F. cornuata** (Ach. Meth. p. 262) Nyl. Scand. p. 76. Syn. *Parmelia Capensis* Spr. — In Promontorio Bonæ Spei: Drège. — Suecia. — Var. **incrassata** Nyl. Ram. p. 59. — In insulis Canariis. — Gallia occid. — Var. **nematodes** Nyl. l. c. — Saxicola in insula Porto Santo prope Madera. — Gallia occid. — Var. **erythrantha** Mnt. Syll. p. 220. — Supra rupes insulæ Sancti Vincentii. — Endem. — Monente Nylander hæc quoad apotheciorum colorem agentis chemicis depravata videtur.

198. R. armorica Nyl. in Flora 1877 p. 562. — Supra saxa maritima in Promontorio viridi. — Gall. occid.

199. R. subwebbiana Nyl. Ram. p. 60. — Saxicola in insulis Canariis: Perraudière. — Endem.

200. R. decipiens Mnt. Can. p. 101. — Saxicola in insula Canaria: Despréaux. — Endem.

201. R. cuspidata (Ach. L. U. p. 605) Nyl. l. c. — In Promontorio Bonæ Spei; in Tschamtei territorii Sansibar: Hildebrandt; in insulis Sanctæ Helenæ: Perrottet, Madera et Canariis. — Europ., Amer. sept. — **F. minor** Nyl. l. c. — In Teneriffa: Despréaux. — Archip. græc. — Var. **crassa** Del. apud Nyl. l. c. — In insula Teneriffa et in Promontorio viridi. — Gallia. — Var. **subvittata** Nyl. l. c. p. 61. — In insulis Canariis Orchella et Postella: Hartung. — Gallia occid.

202. R. arbuscula. Thallus flavidus, basi nigricans, lævissimus nitidus tereti-compressus ramosus, longit. 2 cm, crass. vix 1 mm, ramis subsimplicibus subuliformibus apice interdum denigratis. Cortex amorphus, K =. Apothecia terminalia cum ramulo geniculatim emisso, diam. ad 2 mm, plana vel agariciformia, subtus glaberrima, disco alboprui-noso pallide testaceo, margine concolore crassiusculo integro. Sporæ 1-septatæ rectæ, longit. 0,012-15 mm, crassit. 0,004-6 mm, bis ad ter longiores quam crassæ. Spermogonia pallida ramis

(Ramalina)

insidentia. A proxima *R. Curnowii* Cromb. in Flora 1875 p. 441 reactione thalli et colore spermogoniorum differt. — Saxicola ad Muizenberg in Promontorio Bonæ Spei: MacOwan. — Endem.

203. *R. Tingitana* Salzm. in Hb. Lenorm., Nyl. l. c. p. 62. — Prope Tanger ad rupes maritimas: Salzmann. — Etiam in regione Algeriensi: Durieu, Bové. — Corsica.

204. *R. pusilla* Le Prev. in Fr. L. E. p. 29. Syn. *Dufouria cuneiformis* Kunze, Krempfh. — Supra ramulos *Oleæ* ad La Calle in Algeria: Durieu, in Africa australi: Drège, Wawra, Rehmann, Wilms, Breutel, MacOwan, in Teneriffa: Boll, Bourgeau, de la Perraudière, in Madera supra corticem *Salicum* et *Castanearum* juniorum prope Nossa Senhora do monte: Boll, in insula Sancti Thomæ: Moller. — Europ. merid., Java, Japon.

205. *R. geniculata* Hook.-Tayl. in Lond. Journ. Bot. III p. 655. — In montibus Camerun 2400 m: Mann et in insulis Sancti Thomæ 800 m: Moller et Madagascar: Hildebrandt. — Austr., Polynes., Nov.-Zel., Amer. calidior. — Var. **olivacea** Müll. in Flora 1879 p. 294. — In ramulis *Spondias* prope Landana: Pechuel-Loesche. — Endem.

206. *R. minuscula* Nyl. (Lapp. p. 114) Ram. p. 66. — Ramulicola necnon supra saxa in insula Teneriffa et ad Ribeiro frio in insula Madera: Fritze. — Europ., Amer. arctic.

207. *R. intermedia* Del. Hb., Nyl. l. c. p. 68. — Supra ramos arborum in Inaccessible Island et (nonnihil dubia) ad Promontorium Bonæ Spei: Schott. — Europ., Amer. arct.

208. *R. consanguinea* Müll. l. c. 1885 p. 501. — Ramulicola ad Tschamtei in Duruma Africae orientalis: Hildebrandt. — Endem.

209. *R. subgeniculata* Nyl. in Mand. Mad. 24 et Ram. p. 69. — Ramos ramulosque arborum obtegens ad Ribeiro frio in Madera: Mandon et Teneriffa. — China, Austral., Santa Cruz.

210. *R. Panizzei* DN. in Giorn. Bot. it. I p. 211. — Supra corticem *Cysti Monspeliensis* prope Oran, inter saxa in summo Dschebel santo, supra corticem *Juniperi oxycedri* in summo monte Atlas: Durieu, Balansa. — Liguria, Lusitania.

211. *R. Abyssinica* Nyl. Ram. p. 71. Syn. *R. pollinaria* Krmplh. Afr. p. 137. — Supra truncos *Ericæ acrophyæ* in monte Silke Abyssiniæ 3200 m: Schimper. — Endem.

212. *Combea mollusca* (Ach. Meth. p. 235) Nyl. Syn. I p. 257. — Supra rupes maritimas Promontorii Bonæ Spei: Osbeck, Ecklon, Zeyher, MacOwan. — Endem.

213. *Roccella Balfourii* Müll. Diagn. Soc. p. 2. — Supra saxa maritima insulæ Socotra: Balfour, Schweinfurth. — Endem.

214. *R. tinctoria* DC. Fl. Fr. II p. 334. — In Aegypto mediterranea: Schweinfurth, Algeria: Durieu, in Senegambia, Benguella, ad Promontorium Bonæ Spei; in insulis Azoreis: Hartung (Hepp Fl. E. 568), Madera, Canariis, Ascensionis: Wawra, Sanctæ Helenæ: Burchell, Borbonia (*R. Boryi* Fée), Sancti Mauritii, Socotra: Schweinfurth. — Ad oras Europæ mediterr., Indiæ orient., Californ., Amer. centr. et austr.

215. *R. hypomecha* (Ach. Meth. p. 274) Nyl. in Flora 1886 p. 200. — Supra saxa maritima et cortices Promontorii Bonæ Spei: Breutel, MacOwan, in Benguella: Welwitsch. — Endem.

216. *R. phycopsis* Ach. L. U. p. 440. — Supra scopulos maris mediterranei et atlantici in Algeria, ad Promontorium Bonæ Spei: Zeyher, Ecklon, Wright, in insulis Maderā:

(Roccella)

Mandon (Mad. 36), Canariis, Ascensionis, Sanctæ Helenæ: Burchell, Melliss et Madagascar. — Europ. occid., Calif., Peruv., Lima, Cuba. — Var. **pygmæa** DR.-Mnt. Alg. p. 266. — Supra truncos et ramulos arborum ad oram Algeriensem: Durieu. — Cuba.

217. R. fuciformis (L. Suec. p. 182) Ach. L. U. p. 440. — Ad oras Africæ occidentalis, meridionalis, orientalis et insularum Maderæ (Mandon Mad. 23), Canariensium, Caprarum in sinu Guineensi: Newton et Sancti Mauritii. — Europ. occid., mediterr., Asia min., Calif., Amer. centr. et austral. — **F. linearis** Ach. l. c.?, Holl apud Kremplh. in Flora 1868 p. 224. — In insula Madera: Holl. — Hispan., Sumatra. — Var. **ventricosa** Mnt. Ann. Sc. nat. IV, 1860 p. 221. — Supra rupes maritimas in Promontorio viridi: Bolle. — Endem.

218. R. Montagnei Bél. Voy. Ind. or. p. 117. — Supra saxa maritima et cortices in Benguella: Welwitsch, Angola: Bussy, Port Natal: Gueinzus, Transvaalia: Rehmman, Sansibar: Hildebrandt et supra arborum corticem in insulis Madagascar: Boivin, Knosp, Geiger, Socotra: Schweinfurth et Majotte (forma). — India orient., Java, Austral. — **F. teretior** Cromb. Rodr. p. 433. — Saxicola in insula Rodriguesii. — Endem. — **F. rigidula** Müll. in Flora 1879 p. 294. — Supra truncos *Adansonie* ad Chinchoxo et supra truncos *Spondias* prope Landana: Pechuel-Loesche. — Endem. — Var. **Peruviensis** Krmplh. Wawr. Weltr. in Abh. Zool.-Bot. Gesellsch. Wien XXV p. 442. — In insula Socotra: Schweinfurth. — Lima.

219. Chlorea vulpina (L. Spec. p. 1155) Nyl. Prodr. p. 45. Syn. *Evernia lacunosa* Fr. S. O. V. p. 282. — Corticicola in insulis Canariis. — Europ., Amer. sept. pacif.

220. C. Canariensis (Ach. L. U. p. 597) Nyl. Prodr. p. 45. — E rupibus editis siccis pendula in insulis Canariis:

Berthelot et Webb, Husnot et Madera: Holl, Jelinek et Fritze. — Amer. austr.?

221. C. Soleirolii (Duf. in Schaer. En. p. 180) Nyl. l. c. — Supra saxa in insulis Canariis et in Sierra Leone. — Corsica, Ital.

222. Usnea florida (L. l. c. p. 1156) Hffm. l. c. p. 133. — Supra truncos ramosque arborum et saxa in Abyssinia: Hildebrandt, Antinori, Africa occidentali, australi (Zw. exs. 819, 820), orientali, in insulis Madera, Teneriffa, Gorgoneis, Sancti Thomæ: Moller, Sanctæ Helenæ, Borbonia, Sancti Mauritii et Rodriguesii. — Europ., Asia, Java, Austral., Polyn., Nov.-Zel., Amer.¹ — F. **sorediifera** Arn. in Flora 1874 p. 569. — In Schoa: Antinori et in insula Johanna: Hildebrandt. — Europ. — Var. **densirostra** (Tayl. in Hook. Journ. Bot. 1847 p. 192). — In insula Madagascar. — Amer. austral. — Var. **strigosa** Ach. Meth. p. 310. — Corticicola in Abyssinia: Schimper, Hildebrandt, in Transvaalia: Rehmman, in Monte Tabulari prope Kapstadt: Wilms et in insula Sanctæ Helenæ: J. D. Hooker. — Asia, Austral., Amer. sept. calidior, centr. et austral. — Var. **pulverulenta** (Müll. l. c. 1885 p. 499). — Ramulicola prope Bagla 2800 m in Abyssinia: Hildebrandt et in Transvaalia: Rehmman. — Endem.²

223. U. hirta (L. l. c. p. 1155) Hffm. l. c. — In Africa australi: Drège, Kraus, Wawra, MacOwan, Rehmman, Mac Lea, Wilms et in insulis Madera: Jelinek, Sanctæ Helenæ:

¹ Forma *rubiginea* Mich. Fl. Bor.-Amer. II p. 322 sicut omnis forma *Usnearum* rubescens certe nil nisi statum artificialem sistit.

² A cl. Stirton (on *Usnea*) species novæ *U. floridae* affines sequentes afferuntur: *U. flammea* (l. c. p. 4), *rubrotincta* (l. c. p. 5), *dasæa* (l. c. p. 6), omnes ex insula Madera: Payne et *U. distensa* (l. c.) ex Africa australi.

(Usnea)

Burchell, Melliss et Madagascar. — Europ., Zeylan., Amer. utraque.

224. U. xanthopoga Nyl. Campb. p. 2 et in Cromb. Madag. p. 410 cum forma rubiginescence. — Ramulicola in Madagascar: Pool. — Inss. Philipp., Austral., Campbell, Patag.

225. U. dasypoga (Ach. Meth. p. 312) Nyl. in Lamy Cat. p. 125. — In Schoa: Antinori, ad Promontorium Bonæ Spei: Rehmann et in insulis Madera (Mand. Mad. 46), Canariis et Madagascar. — Cosmopolit.

226. U. dasypogoides Nyl. in Cromb. Rodr. p. 433. — Supra ramos arborum in Monte Tabulari: Wilms et in insulis Socotra: Schweinfurth, Rodriguesii: Balfour, Sancti Mauritii: Robillard et Madagascar: Hildebrandt. — Inss. Philipp. Nov.-Brit., Nov.-Zeland. — Var. **sorediosula** Müll. l. c. p. 499. — Ramulicola prope Andrango lowaka in insula Madagascar: Hildebrandt. — Patagon.

227. U. plicata (L. l. c. p. 1154) Hffm. l. c. p. 132. — Supra ramulos arborum ad Keren in Abyssinia: Beccari, in Transvaalia: Rehmann, in montibus insulæ Gorgoneæ Sancti Nicolai: Bolle et in insula Sancti Mauritii: Sieber. — Europ., Asia, Austral., Polynes., Amer. utraque. — Var. **nidifica** (Tayl. l. c. p. 191) Müll. l. c. 1888 p. 21. — In insula Sanctæ Helenæ. — Ins. Norfolk. — Var. **flexuosa** (Tayl. l. c. p. 192) Müll. l. c. — In Abyssinia: Steudner. — Quito.

228. U. articulata (L. l. c. p. 1156) Hffm. l. c. p. 133. — In Abyssinia, Schoa, Algeria, Africa australi, in monte Kilimandscharo: Meyer, in terra Somali et in insula Sancti Thomæ 1300—2100 m: Moller. — Europ., Asia, Austral., Polynes., Amer.¹

¹ Stirton l. c. p. 8 binas species sequentes novas *U. articulatae* affines ex Africa australi offert: *U. flexilem*, leg. Shaw et *prælongam*, leg. MacLea.

(Usnea)

229. U. intercalaris Krmph. Südsee p. 96. — Supra corticem arborum in Promontorio Bonæ Spei. — Austral., Polyn., Brasil.

230. U. ceratina Ach. L. U. p. 619. — In Abyssinia: Schimper, Beccari, in Guinea: Mann, Newton, in Africa australi: Ecklon, Zeyher, Rehmann, Wilms, in insulis Madera: Fritze, Canariis, Sanctæ Helenæ: Hooker, Burchell, Melliss, Sancti Thomæ: Moller et Sancti Mauritii. — Cosmopolita, in zonis temperatis et calidis. — Var. **scabrosa** Ach. l. c. p. 620. — In Abyssinia: Hildebrandt, Antinori, et in insula Madagascar. — Europ., inss. Sandw., Ecuador. — **F. capitulifera** Müll. l. c. p. 528. — In insula Borbonia. — Endem. — **F. aspera** (Eschw. Bras. p. 227). — Prope Maruessa in territorio Sansibar: Hildebrandt, in Abyssinia: Schimper. — Brasilia, Montevideo.¹ —

231. U. cornuta (Fw. Schimp. It. Abyss. 433) Krb. Pg. p. 2. — Supra saxa in Abyssinia 2700—3600 m: Schimper, supra arborum truncos in Schoa: Antinori et in republica Oranje: Rehmann. — Europ., Ind. orient., Amer. merid. — Consente Müll. l. c. 1887 p. 57 eadem est ac *Usnea lorea* Fr. S. O. V. p. 282.²

232. U. gracilis Ach. l. c. p. 627. — Supra cortices in insula Borbonia. — Nov.-Granat.

233. U. longissima Ach. l. c. p. 626. — Supra arborum corticem in Schoa: Antinori³, ad Maruessa in Sansibar:

¹ A. cl. Stirton l. c. duæ species *U. ceratinæ* extus simillimæ sed strato rubello inter corticem et telam axilem ab omni *Usnea* generice distinguendæ in insula Fernando Po a G. Thomson lectæ commemorantur. Hæ sunt *Eumitria Baileyi* Strt. l. c. p. 2 (etiam in Queensland) et *E. firmula* Strt.

² Stirton l. c. *Usneam* novam *cornutæ* affinem: *U. subcornutam* ex insula Madera (l. Payne) affert.

³ Hæc a parasito *Abrothallo Usneæ* Rbh. L. E. 551 infestata est.

(Usnea)

Hildebrandt, in monte Kilimandscharo et in Usambara: Meyer, ad Promontorium Bonæ Spei: Breutel, ad flumen Quillu Africae occidentalis, in insulis Canariis, Sancti Thomæ 1200—2100 m: Moller et Sancti Mauritii. — Europa, Asia, Austral., Amer.¹

234. U. trichodea Ach. Meth. p. 312. — Ramulicola in Schoa: Antinori, ad Promontorium Bonæ Spei: Drège, Wawra, Schott, Breutel, Wilms, in Usambara: Meyer, in insulis Sancti Thomæ 850—2100 m: Moller, Borbonia, Sancti Mauritii et Johanna: Hildebrandt. — Asia, Austr., Polyn., Amer.

235. U. Jamaicensis Ach. L. U. p. 619. — Supra truncos vetustos *Ericæ arboreæ* in Madera: Holl. — Amer. calidior.

236. U. lævis (Eschw. l. c.) Nyl. Syn. I p. 271. — In Benguella: Welwitsch, in territorio Zulu: Schloemann et in insula Sanctæ Helenæ: Burchell. — Amer. æquin., Montevideo.

237. U. angulata Ach. Syn. p. 307. — Ramulicola ad flumen Kongo: Paul Hesse, Ledein, supra arborum corticem secus flumen Quillu: Pechuel-Loesche, in Natalia: Rehmann, in Transvaalia: Wilms (Lojka Lichenoth. 58), Rehmann, in Promontorio Bonæ Spei: Ecklon, Breutel, Usambara: Meyer et in insula Madagascar: Boivin. — Asia, Austral., Polynes., Amer. utraque.

238. Cetraria aculeata (Schreb. Fl. Lips. p. 125) Fr. Sched. crit. 9 p. 32. — Terricola ad Promontorium Bonæ Spei: Breutel, MacOwan et in insula Madera: Fritze. — Europ., Himalaya, Amer. sept. et antarct.

239. C. crispa Ach. L. U. p. 513 f. **subtubulosa** Fr. L. E. p. 37. — In insula Sancti Mauritii: Sieber. — Europa sept. et Amer. sept.

¹ *U. amplissima* Strt. l. c. p. ex Africa australi (l. MacOwan) ab cl. autore *U. longissimæ* affinis dicitur.

(Platysma)

240. Platysma ulophyllum (Ach. Meth. p. 297) Nyl. Scand. p. 82. — In insula Madera: Fritze. — Europ., Ind. or.

241. P. glaucum (L. Suec. p. 167) Nyl. Prodr. p. 49. — In montuosis ad Blidah prope Alger: Trabut et in insula Madera: Jelinek. — Europ., Asia, Amer. sept. et antarct. — **F. fallax** (DC. l. c. p. 401). — In insulis Madera: Jelinek et Teneriffa: Despréaux. — Europ.

242. P. megaleium Nyl. (Syn. I p. 378) in Flora 1869 p. 290. — Super arborum truncos in Monte Camerun 2400 m: Mann, etiam saxicola in montibus Abyssinicus Dedschen 4200 m et Silke 3600 m: Schimper. — Himalaya, Java.

243. Alectoria jubata (L. l. c. p. 219) Ach. L. U. p. 592. — In Africa boreali et in insulis Canariis. — Europ., Asia, Amer. sept. et centr.

244. A. chalybeiformis (L. Spec. p. 1155) Ach. Syn. p. 291 f. **lanestris** (Ach. L. U. p. 593) Nyl. Scand. p. 72. — In Dschebel Tugurth Algeriæ: Balansa. — Europ., Asia arct., Amer. sept. — **F. terrestris**. Thallus tenuissimus filiformis elongatus, ramis fere destitutus, niger. Addito hydrate kalico rubefieri videtur at maceratione potius quam effectu chemico. — Supra terram argillaceam nitrosam juxta prædium Franskraal prope Smithfield in republica Oranje: Orpen. — Endem. — Hanc plantam indigenæ nihil aliud esse serio putant quam capillos maiorum ibidem sepulcorum per solum ad superficiem terræ pronatos.

245. A. implexa (Hffm. l. c. p. 134) Nyl. in Norrl. Kar. p. 14 f. **cana** (Ach. l. c.) Nyl. l. c. — In Marocco boreali: Hooker. — Europa.

246. A. bicolor (Ehrh. Beitr. 3 p. 82) Nyl. Prodr. p. 45. — In insula Madera: Fritze. — Europ., Himalaya, Amer. arct., Argent.

247. A. luteola Del. Hb., DN. Framm. p. 206. — Madera: Mandon (Mad. 40). — Terra nova.

(Alectoria)

248. A. ochroleuca (Ehrh. l. c.) Nyl. l. c. p. 47. — In insulis Canariis monente Mass. Cap. p. 36. — Europ., Asia, Austral., Amer.

249. A. sarmentosa Ach. (in V. Ak. H. 1797 p. 212) L. U. p. 595. — „In Africa, insulis Canariis et Borbonia“ Nyl. Syn. p. 282. — Europ., Asia arct., Amer. utraque.

250. Evernia furfuracea (L. l. c. p. 1146) Mann Lich. Boh. p. 105. — Super arbores, raro super saxa et ligna in Africa boreali et insulis Canariis. — Europ., Asia, Amer. utraque. — Nomine Schaebe venalis Alexandriae et Cahiræ.

251. E. prunastri (L. l. c. p. 1147) Ach. l. c. p. 442. — In Africa boreali et in insula Ascensionis. — Europ., Asia, Amer. sept., Peruv. — Cum priore venalis in Aegypto.¹

252. E. divaricata (L. Syst. nat. p. 713) Ach. l. c. p. 441. — Fertilis supra arborum truncos in Schoa: Antinori. — Europ., Asia, Amer. sept.

253. Parmelia sphærospora Nyl. Exot. p. 254. — Supra corticem arborum in insulis Madagascar et Borbonia necnon ad Promontorium Bonæ Spei. — Endem.

254. P. caperata (L. Spec. p. 1147) Ach. Meth. p. 216. — Ex Algeria in Abyssiniam et Promontorium Bonæ Spei; in insulis Madera, Teneriffa et Johanna: Hildebrandt. — Europ., Asia, Austr., Nov.-Zel., Amer. utraque.

255. P. subcaperatula Nyl. in Flora 1885 p. 606. — Supra arborum ramos ad Krügerspost prope Lydenburg in Transvaalia: Wilms. — Tasmania.

256. P. persulfurata Nyl. l. c. — Supra arborum ramos prope Lydenburg (inter Komati et Sandriver) in Transvaalia: Wilms. — Louisiana, Cuba.

¹ „Decoctum hujus Lichenis cum farina miscunt Aegyptii ut sapor panis fiat inde jucundior“ Delile Egypt. p. 112.

257. P. chlorea. Thallus flavovirescens membranaceus pachydermatinus, lobis periphericis lævibus opacis adnatis planis parce crenatis, centralibus ascendentibus corniculatis convexis rugosis, subtus pallidus rhizinis brevibus concoloribus parcis. Epithallus K+ sordide ferrugineus, medulla K+ intense lutea; K (CaCl)=; color epithalli K provocatus affuso CaCl evanescit. Apothecia minora diam. 4 mm., margine connivente profunde inciso-crenato, disco concavo fusco. Hymenium superne fuscum in hypothecio incolore, paraphysibus coalitis; sporæ incolores simplices ovoideæ longit. 0,009-11, crassit. 0,004-6 mm. Gelatina hymenea iodo cœrulescens. Spermogonia punctiformia nigrofusca, spermatia longit. 0,006-7, crassit. 0,0005 mm. — Supra lapides in republica Oranje: Orpen. — Endem.

258. P. Schenckiana Müll. in Flora 1888 p. 529. Reagentia solita in thallum non agunt. — Supra saxa quartzosa prope Obib ad flumen Oranje in Africa austro-occidentali: A. Schenck. — Endem.

259. P. conspersa (Ehrh. in Ach. Prodr. p. 118) Ach. Meth. p. 205. — Saxicola in terris montanis usque ad Promontorium Bonæ Spei necnon in insulis Madera (Mandon Mad. 11), Madagascar et Borbonia. — Europ., Japon., Austral., Amer. utraque. — Var. **stenophylla** Ach. Syn. p. 109. — In Africa australi et in insula Madagascar. — Europ., Austral. — Var. **hypoclysta** Nyl. Syn. I p. 391. — Iisdem locis necnon in insulis Socotra: Schweinfurth, Canariis et Madera: Mandon (Mad. 10). — Gall., Hispan. — F. **isidiosa** Müll. l. c. 1883 p. 147. — Prope Sansibar: Hildebrandt et in Borbonia: Lepervanche. — Japon., Nov.-Zel., Cuba. — Var. **multifida** (Fw. in Linn. 1843 p. 27) Nyl. l. c. p. 322. Syn. *P. consp. var. hypoclystoides* Müll. l. c. p. 148. — In Promontorio Bonæ Spei: Kraus, Wawra, Wilms et in insula Sancti Mau-

(Parmelia)

ritii: Robillard. — Austral. — Var. **austroafricana** (Strt. Add. p. 212). — In scopulis prope Klyn-Visch-Rivier in Africa australi: MacOwan. — Endem.

260. P. leonora Spr. in Collect. Drège 64. Syn. *P. concolor* Spr. l. c. et *P. phæophana* Stirt. l. c. p. 214. Sporæ longit. 0,008-12, crassit. 0,004-8 mm. — In Africa australi: Drège, Breutel, Baur, Wawra, MacOwan (Zw. Exs. 821), MacLea. — Endem.

261. P. conspersula Nyl. in Cromb. Cap. p. 168. — Saxicola in Promontorio Bonæ Spei: Eaton, MacOwan. — Endem.

262. P. perspersa. Thallus pallide sulfureus, centro granulatus, ambitu lobatus, totus adpressus, lobi nonnihil convexi versus ambitum plani pinnatifidi lobulis crenatis. Apothecia parmelioides diam. 0,3-1,5 mm, concava vel plana rarius convexula, margine subintegro crasso, disco fusconigro. Epithecium fuscum, paraphyses coalitæ. Sporæ octonæ simplices longit. 0,008-10, crassit. 0,004-6 mm. Thallus K⁺ flavens dein carneorubens. *P. conspersæ* et *conspersulæ* proxima. — Supra saxa arenaria in fastigio septentrionali Montis Leonis 700 m prope Kapstadt: MacOwan. — Endem.

263. P. endomiltodes Nyl. l. c. — Saxicola in Monte Tabulari: Eaton; super saxa granitica dilabentia in Monte Leonis prope Kapstadt: MacOwan. — Endem.

264. P. constrictans Nyl. l. c. — Supra terram in Monte Tabulari: Eaton, MacOwan, prope Lydenburg in Transvaalia: MacLea. — Austral. — Var. **eradicata** Nyl. l. c. — Inter muscos in summo Monte Tabulari: Eaton. — Austral.

265. P. subconspersa Nyl. in Flora 1869 p. 293. — Saxicola in Promontorio Bonæ Spei, in Natalia, Transvaalia et in insulis Rodriguesii: Balfour et Borbonia. — Gall. merid.,

(Parmelia)

Japon., Nov.-Zel. — Var. **incisa** (Tayl. l. c. p. 162). Syn. *P. consp.* var. *laxa* Müll. l. c. p. 47. — In Monte Tabulari et Leonis prope Kapstadt: MacOwan, Wilms, in Transvaalia: Wilms. — Austral., Tasman. — Var. **thamnidiella** (Strt. l. c. p. 213). — Supra rupes basalticas summi montis Boschberg prope Sommerset East in Africa australi: MacOwan. — Endem. — „Facile formatio atypica“ Nyl. in lit.

266. **P. perisidiosa* Nyl. in lit. — In Promontorio Bonæ Spei: Drège. — Endem.

267. *P. adpressa* Krmplh. in Flora 1876 p. 72 var. **endochrysea** Müll. ib. 1879 p. 289. — Supra saxa gneissica collium Gumango et in monte Baginse apud gentes Nyamnyam: Schweinfurth. — Endem.

268. *P. saxeti*. Thallus stramineus vel pallide sulfureus saxo arcte adnatus, lobis contiguis pinnato- vel crenato-incisis, intus albus, K^- luteus, subtus niger. Apothecia sessilia lecanorina plana rarius convexula, disco castaneo-fusco, margine tenui integro, diam. ad 1 mm. Hymenium superne fuscum, paraphysibus coalitis. Sporæ octonæ longit. 0,009-11 mm, crassit. 0,003-4 mm. Gelatina hymenea iodo cœrulescens. Spermogonia crebra versus marginem lorum thalli, nigra, diam. 0,1 mm. Spermata recta bacillaria longit. 0,007, crassit. 0,0005 mm. Arcte affinis *P. adpressæ* Krmplh. — Supra saxa basaltica montis Lubombo in Transvaalia: Wilms. — Endem.

269. *P. adplanata* Müll. l. c. 1885 p. 502 unacum f. **isidiigera** l. c. — Supra saxa prope Mombossa in territorio Sansibar: Hildebrandt. — Endem.; typus etiam in Argent. — Medulla lutescens K^+ pallide ferruginea.

270. *P. centrifuga* (L. l. c. p. 1142) Ach. Meth. p. 206. — Ad Promontorium Bonæ Spei: Zeyher. — Europ. boreal. et media, Asia arct., Amer. sept. et arctic.

(Parmelia)

271. *P. Mougeotii* Schaer. En. p. 46. — Supra saxa duriora in Port Natal: Armstrong-Mackenzie et Angola: Welwitsch. — Europ., Amer. austr.

272. *P. adhærens* Nyl. in Cromb. Cap. p. 168. — Supra saxa quartzosa in Monte Tabulari: Eaton. — Endem.

273. *P. interrupta*. Thallus sulfureus arcte adnatus in hypothallo nigro, centro areolatodiffractus, areolis contiguis convexis, ambitu laciniatus, laciniis angustis planiusculis subdichotomodivisis, K^+ flavens. Apothecia lecanorina versus areolarum marginem sita, latit. 0,3-1 mm, plana vel subconvexa, margine thallino tenui integro demum evanescente, disco nigrofusco. Epithecium fuscum, hypothecium incolor, paraphyses coalitæ; sporæ octonæ simplices elongato-ellipticæ longit. 0,014-15 mm, crassit. 0,005-6 mm; gelatina hymeneæ iodo intense cœrulescens. Spermogonia crebra in thalli areolis, nigra, spermatia minutissima. Forte *P. adhærenti* affinis, sporis majoribus, spermatiis minoribus et thalli reactione a congeneribus satis diversa. — Saxicola prope pagum Ceres in montibus Warne Bokkeveld Africae australis: MacOwan. — Endem.

274. *P. squamariata* Nyl. l. c. p. 169 unacum f. **cinerascente** Nyl. l. c. — Saxicola in Monte Tabulari: Eaton. — Endem.

275. *P. convexula* Müll. Diagn. Soc. p. 3. — Quartzicola in insula Socotra: Balfour, Schweinfurth. — Endem.

276. *P. perplexa*. Thallus nigrofuscus subopacus adnatus, centro granulato-areolatus, ambitu dilutior pallide olivaceus immo sordide stramineus vel ochroleucus, laciniatus, laciniis angustis convexis pedatim divisis crenulatis. Apothecia majora latit. 0,5-2 mm, primum concava margine ochroleuco crenulato dein plana margine flexuoso tenuissimo, disco nigrofusco. Epithecium luteofuscum, paraphyses coa-

litæ. Sporæ octonæ simplices ovoideæ longit. 0,010-14 mm, crassit. 0,005-7 mm. Gelatina hymenea iodo cœrulescens. Thallus $K\bar{+}$ luteus dein sanguineus. Prope *P. Mougeotii* collocanda, ad *P. alpicolam* Fr. fil. nonnihil vergens. — Saxicola prope pagum Ceres in montibus Warme Bokkeveld Africae australis: MacOwan. — Endem.

277. *P. molliuscula* Ach. L. U. p. 492. — Supra terram et saxa in Promontorio Bonæ Spei: Thunberg. — Amer. sept., Peruv.

278. *P. hypoleia* Nyl. Syn. I p. 393. Syn. *P. phæophana* var. *stenotera* Strt. Add. p. 214. — In Promontorio Bonæ Spei: MacOwan, Wawra et in republica Oranje: Rehmman. — Endem. — *F. crenata* Nyl. l. c. — In Promontorio Bonæ Spei: Gueinzus. — Endem. — Var. *tenuifida* Nyl. l. c. — Ibidem. — Endem.

279. *P. sulfurata* Nees-Fw. in Linn. 1834 p. 501, Nyl. l. c. p. 377. — Corticicola in insula Sancti Mauritii: Robillard. — Asia orient., Java, Polynes., Amer. sept.

280. *P. perforata* (Jacq. Coll. I p. 116) Ach. Meth. p. 217. — Supra truncos arborum in Africa occidentali et australi nec non in insulis Madera, La Palma, Sanctæ Helenæ, Tristan d'Acunha, Inaccessible Island, Madagascar et Sancti Mauritii; super corticem *Cedri* in Monte Atlante Algeriæ: Trabut (sorediata) et in collibus supra Pietermaritzburg Nataliæ: Rehmann (isidiosa). — Europ., Asia, Polynes., Amer. utraque. — Var. *cetrata* (Ach. Syn. p. 198) Nyl. l. c. p. 378. — In Natalia: Rehmann, in insulis Ascensionis: Naumann, Madagascar: Hildebrandt et (graniticola) in Socotra 1000 m: Schweinfurth. — Amer. utraque. — Var. *ciliata* Nyl. l. c. — Supra ramulos *Populi albæ* inter El-Arisch et Alcazar in Marocco; Brun; supra saxa granitica dilabentia in Monte Leonis prope Kapstadt: MacOwan, in Transvaalia: Wilms. — Austral.,

(Parmelia)

Nov.-Zeland., Montevideo. — Var. **ulophylla** Mey.-Fw. l. c. p. 218. — In insulis Madagascar: Hildebrandt, Ascensionis: Naumann et Teneriffa. — Inss. Sandwich.

281. P. hypotropia Nyl. l. c. — Supra ramulos *Populi albae* prope El-Arisch et Alcazar in territorio Marocco: Brun. — Amer. sept., Brasil. — Censente Müll. eadem ac *Cetraria corrugis* Fr. S. O. V. p. 283.

282. P. perlata (L. Syst. nat. p. 712) Ach. Meth. p. 216.¹ — Supra truncos arborum et saxa in Africa continente et in insulis Teneriffa, Sancti Thomæ 1500—2000 m: Moller, Sanctæ Helenæ, Tristan d'Acunha et Borbonia. — Europ., Asia, Austral., Polynes., Amer. — F. **sorediata** Schaer. En. p. 34. — In Madera: Mandon (Mad. 32). — Pariter distributa ac typus. — F. **coralloidea** Mey.-Fw. l. c. p. 219. — In insula Madagascar. — Asia or., Amer. centr. et austr. — Var. **ciliata** (DC. Fl. Fr. II p. 403) Schaer. l. c. — Supra arbores et saxa minime rara; super radices aëreos *Dendrobii* ad *Ficos* parasiti in pago Monbutta Aegypti: Schweinfurth. Etiam in insulis Madera, Teneriffa, Sanctæ Helenæ et Borbonia. — Europ., Zeylan., China, Polynes., Amer. — F. **excrescens** Arn. exs. 655 et in Flora 1882 p. 130. — Corticicola in insula Sancti Thomæ: Moller. — Europ. — F. **sorediifera** (Müll. in Flora 1884 p. 615). — Saxicola in Madagascaria centrali: Hildebrandt. — Nov.-Holland. — F. **corallina** (Müll. l. c. p. 116). — In insulis Madagascar et Sancti Mauritii: Robillard. — Japon., Austral., Amer. tropica. — F. **dissectula** Nyl. in Leight. Great Brit. Ed. III p. 120. — In insulis Sancti Mauritii et Borbonia. — Europ. — Var. **xanthina** (Müll.

¹ Schimper ad Lichenem Abyssinicum in Museo naturali magnitudinali aulico Caroliruhæ super truncos arborum in locis umbrosis ad fastigium septentrionalem montis Kubbi nascentem adnotat eum ab incolis „Saba om“ id est *lac arboreum* nuncupari.

l. c.). — Saxicola in Madagascaria centrali: Hildebrandt. — Endem. — Var. **platysmoides** Nyl. in Hb. Soc. bot. Franc. — In insulis Teneriffa: Perraudière et Madera: Mandon. — Endem.

283. P. crinita Ach. Syn. p. 196. — Corticicola in insulis Sancti Thomæ (thallo isidiophoro): Moller, Principis: Newton, Madagascar: Hildebrandt et Sancti Mauritii: Sieber. — Zeylan., China, Amer. utraque. — Var. **Argentina** (Krmplh. in Flora 1878 p. 476) Müll. ib. 1885 p. 529. — Prope Tschamtei in territorio Sansibar: Hildebrandt. — Amer. austral.

284. P. olivetorum (Ach. L. U. p. 458 p. p.) Nyl. Lapp. p. 180. — Super ramos arborum et ligna in Africa centrali, australi et orientali, ad ostium fluminis Kongo: Paul Hesse; etiam in insulis Ascensionis: Naumann, Madagascar, Johanna: Hildebrandt, Socotra: Schweinfurth. — Europ., Japon., Polyn., Amer. centr. et sept.

285. P. saccatiloba Tayl. l. c. p. 174, Nyl. in Flora 1885 p. 608. — Corticicola in insula Borbonia. — Europ. austro-occid., Java, Amer. calidior.

286. P. abyssinica Nyl. in Krmplh. Afric. p. 140 et Flora 1885 p. 608. — Corticicola in Abyssinia: Hildebrandt et prope Lydenburg in Transvaalia: Wilms (Lojka Lichenoth. 61), MacLea et ad flumen Kongo: Ledien. — Malacca. — Var. **sorediosa** Müll. l. c. p. 501. — Ramulicola in Abyssinia prope Habab et Bagla: Hildebrandt et in Transvaalia: Wilms. — Endem.

287. P. Somaliensis Müll. l. c. — In montibus Ahl terræ Somali 2000 m: Hildebrandt. — Endem.

288. P. Soyauxii Müll. Afr. p. 32. — Supra lapides prope Pungo Andongo in Angola: Soyaux et in insula Ascensionis supra lavam: Naumann; saxicola supra Wadi Kischen in insula Socotra 600 m: Schweinfurth. — Endem.

(Parmelia)

289. P. appendiculata Fée Suppl. p. 118, Nyl. Syn. I p. 381. — Supra ramos arborum in insula Borbonia. — Brasil.

290. P. disparilis Nyl. l. c. — Supra truncos et ramulos arborum in Madagascar: Pervillé, Boivin. — Endem.

291. P. glaucocarpa Müll. in Flora 1884 p. 615. — In insula Madagascariensi Nossi-be: Hildebrandt. — Endem.

292. P. latissima Fée l. c. p. 119. — Supra arbores et saxa in insulis Madagascar, Sancti Mauritii, Rodriguesii et Seychelles. — China, Molucc., Amer. calidior. — **F. isidiosa** Müll. Afr. occ. p. 32. — Supra saxa granitica prope Mayumba ad ostium fluminis Banya; supra arborum truncos in Dem-Bekir et Dur-Fertit Africæ subcentralis: Schweinfurth, in depressione secus flumen Quillu: Pechuel-Loesche et in insula Socotra: Schweinfurth, Balfour. — Ins. Otaiti. — **F. soredata** Nyl. l. c. p. 380. — Supra truncos planitiei secus flumen Quillu: Pechuel-Loesche et in Angola: Soyaux, in insula Sancti Mauritii: Robillard. Graniticola supra Kischen in insula Socotra 900 m: Schweinfurth. — Calcutta, inss. Sandw., Amer. centr. et Brasil. — Var. **corniculata** Krmplh. in Flora 1878 p. 463. — In insula Johanna: Hildebrandt. — Argent.

293. P. Schweinfurthii Müll. Diagn. Soc. p. 3. — Ramulicola supra Kischen in insula Socotra 1000 m: Schweinfurth. — Australia.

294. P. urceolata Eschw. ic. select. p. 23, Nyl. in Flora 1885 p. 610 f. **sorediifera** Müll. in Flora 1884 p. 615. — Sterilis in insula Madagascar: Hildebrandt. — Brasil. — Var. **nuda** Müll. l. c. 1880 p. 610. Syn. *P. Hildebrandtii* Krmplh. Afr. p. 139. — Corticicola in Madagascar, prope Habab in Abyssinia et in ramulis siccis *Acaciorum* montium Ahl in terra Somali et in insula Johanna: Hildebrandt, in insula Socotra: Schweinfurth. — Brasil.

295. P. flavescens (Krmplh. in Flora 1869 p. 223) Nyl. ib. 1885 p. 607. — Corticicola secus flumen Quillu: Soyaux. — Brasil.

296. P. cetrarioides (Del. Hb.) Nyl. l. c. 1869 p. 290. — Corticicola in Africa australi: Drège, Zeyher, Rehmman, Wilms. — Europ., Brasil.

297. P. Nilgherrensis Nyl. l. c. p. 291. — Corticicola ad Promontorium Bonæ Spei, in Natalia: Rehmman; quoque in summo Saba Tensi Abyssiniæ: Schimper. — Bavar., Ind. or., Austral., Boliv.

298. P. africana Müll. l. c. p. 265. — Supra lignum fabrefactum Magnæ Scribæ Ghattas in territorio Djur et prope Dem-Bekir Africæ aequatorialis: Schweinfurth. — Endem.

299. P. scorteia (Ach. Syn. p. 197) Nyl. l. c. 1872 p. 426. — Supra arbores vetustas in Algeria: Durieu et prope Keren Abyssiniæ: Beccari. — Europ., Zeylan., Brasil.

300. P. tinctorum Despr. apud Nyl. l. c. p. 547. — Corticicola et saxicola late distributa in insulis Canariis, ubi pro materia tinctoria insigni purpurea colligitur; quoque in Africa occidentali: Newton, in insulis Sancti Thomæ: Newton et Principis: Quintas. — Asia or., Austral., Nov.-Caled., Bermudas.

301. P. tiliacea (Hffm. En. p. 96) Ach. Meth. p. 215. — Supra cortices arborum, raro supra saxa in Africa boreali, etiam in Port Natal: Armstrong-Mackenzie. — Europ., Asia, Austral., Amer. utraque. — Var. **rimulosa** Müll. Diagn. Soc. p. 3. — Corticicola in insula Socotra: Balfour, Schweinfurth. — Endem.

302. P. revoluta Flk. D. L. 15. — In Guinea, Port Natal: Armstrong-Mackenzie et insula Madagascar. — German., Ind. or., Austral., Antill., Amer. austral.

(Parmelia)

303. *P. carporhizans* Tayl. l. c. p. 163. Cfr. Müll. in Flora 1888 p. 196. — Supra cortices in Algeria et in insulis Canariis et Madera. — Europa.

304. *P. brachyphylla* Müll. l. c. 1886 p. 256. Reagentia solita in thallum non agunt. — Supra lapides porphyricos prope Lydenburg in republica Transvaal: Wilms. — Endem.

305. *P. atrichoides* Nyl. in Cromb. Cap. p. 167. — Saxicola in Monte Tabulari: Eaton et in insula Rodriguesii: Balfour. — Endem.

306. *P. molybdiza* Nyl. l. c. — Saxicola in Monte Tabulari: Eaton. — Endem.

307. *P. lævigata* (Sm. E. B. t. 1852) Ach. Syn. p. 212. — Supra infimos arborum truncos et ligna prope Keren in Abyssinia, in Transvaal, Port Natal et in insulis Madagascar, Sanctæ Helenæ: Siebold, Burchell et Sancti Thomæ: Moller. — Europ., Zeylan., Molucc., Austral., Polynes., Amer. utraque.

308. *P. sublævigata* Nyl. (Syn. I p. 383) Add. Nov.-Granat. p. 539 et in Flora 1885 p. 611. Cfr. Müll. ib. 1888 p. 198. — Corticicola in Africa occidentali, Natalia et in insulis Madagascar et Seychelles. — Anglia, Hibernia, Ind. orient., Malacca, Nov.-Caled., Amer. utraque.

309. **P. Texana* Tuck. Suppl. I p. 424, Nyl. in Flora 1885 p. 612. — In Africa australi teste Stirton (Addend.). — Texas, Nov.-Granat., Brasil.

310. *P. subfuscescens* Nyl. l. c. p. 613. — Saxicola et corticicola in insula Sancti Mauritii. — Endem.

311. *P. sinuosa* (Sm. l. c. t. 2050) Nyl. l. c. 1869 p. 292. — In terra Somali: Hildebrandt, in Promontorio Bonæ Spei: Wawra et in insulis Madera et Borbonia. — Europa, Otaiti, Ind. occid., Amer. sept.

312. *P. meizospora* Nyl. (Syn. I p. 383) in Flora 1869 p. 292 f. ***isidiosa*** Müll. ib. 1884 p. 620. — In Madagascaria: Hildebrandt. — (Typus in Ind. orient. et Brasil.)

313. *P. subsinuosa* Nyl. l. c. 1885 p. 613. — Super muscos prope Lydenburg in Transvaalia: Wilms. — Amer. æquinoct.

314. *P. mutabilis* Tayl. l. c. p. 172, Nyl. Syn. I p. 387. Cfr. Müll. in Flora 1888 p. 200. — Supra saxa ad Promontorium Bonæ Spei (Arn. exs. 1098 et Lojka Lichenoth. 65). — Endem.

315. *P. Capensis* Nyl. in Flora 1885 p. 613 non Spr. in Hb. Krmplh. — In Promontorio Bonæ Spei: Drège. — Endem.

316. *P. revolutella* Nyl. in Cromb. Chall. p. 222. — Corticicola (?) in insula Tristan d'Acunha: Moseley. — Endem.

317. *P. isidiza* Nyl. in Flora 1885 p. 612. — Corticicola ad Serra Chella in Angola: Newton. — Endem.

318. *P. relicina* Fr. S. O. V. p. 283 non L. E. p. 30. — In Africa occidentali: Newton, Schoa: Antinori et in insula Borbonia. — Borneo, Polynes., Amer. calidior.

319. *P. lecanoracea* Müll. l. c. p. 529. — Supra saxa schistosa virentia prope Arisdriift ad Oranje River in Africa austro-occidentali: A. Schenck. — Endem.

320. *P. Borreri* Turn. in Trans. Linn. Soc. 5 p. 148. Syn. *P. perl.* v. *coniocarpa* Fw. — Corticicola in Abyssinia: Schimper, in Natalia: Rehmann, Transvaalia: MacLea, in Promontorio Bonæ Spei et in insulis Canariis. — Europ., Asia, Amer. utraque.

321. *P. rudecta* Ach. Syn. p. 197, Nyl. l. c. 1872 p. 547. Syn. *P. hypoleucites* Strt. in Hb. Gubern. Cap. et *P. lacertatula* v. *phricodes* Strt. Add. — Super corticem arborum in

(Parmelia)

Promontorio Bonæ Spei: Drège, Breutel, MacOwan, Rehmman, in Natalia: Rehmman et in insula Madagascar. — Austral., Amer. utraque.

322. P. subrudecta Nyl. l. c. 1886 p. 320. — Super arborum truncos in sylvis montanis prope Krakakama ad Promontorium Bonæ Spei: Ecklon, Breutel. — Ins. St. Paul., Nov.-Zeland.

323. P. subæquans Nyl. in Cromb. Cap. p. 167. — Inter muscos supra truncos arborum in Monte Tabulari: Drège, Eaton. — Endem.

324. P. insignata. Thallus cæsiocinereus vel olivaceo-virens tenuis opacus, punctis solediosis minutis crebris inspersus, lobis rotundatis subcrenatis, adultioribus margine solediato, subtus obscuratus, versus marginem pallens et rhizinis brevibus densis pallidis obsitus. Apothecia juniora globosa in vertice pertusa, nulla evoluta visa. Sporæ et spermogonia ignota. Epithallus K+ flavens, medulla K—, soledia K (CaCl) erythrinice tincta. — Supra terram in summo Monte Leonis prope Kapstadt: MacOwan. — Endem.

325. P. saxatilis (L. Spec. p. 1142) Ach. Meth. p. 204. — In Africa continente usque ad Promontorium Bonæ Spei; in insula Madera *Homostegia* specie infecta: Fritze, in insula Sanctæ Helenæ: Burchell. — Europ., Asia arct. et orient., Tasman., Nov.-Zel., Amer. arct. et sept.

326. *P. sulcata Tayl. in Mack. Fl. Hib. p. 145 var. **contorta** (Bory-Chaub. Pelop. p. 71) Nyl. Syn. I p. 389. — In Algeria: Durieu. — Peloponnes., Amer. sept.

327. *P. omphalodes (L. l. c. 1143) Ach. Meth. p. 204. — Saxicola in insula Madera (Mand. Mad. 29). — Europ., Asia, Amer. sept. et antarct. — Var. **panniformis** Ach. l. c. f. **crinalis** Hepp Fl. E. 861. — In summo Monte Tabulari. — Europa.

328. P. acetabulum (Neck. Delic. p. 506) Dub. Bot. Gall. p. 601. — Supra truncos arborum in Algeria. — Europ., Cilicia, Amer. sept.

329. P. exasperata (Ach. L. U. p. 645) DN. Parm. p. 18. — Supra arborum truncos in Dschebel Wasch prope Constantine Algeriæ: Flagey. — Europ., Amer. sept.

330. P. proluxa (Ach. Meth. p. 214) Nyl. l. c. p. 396. — Supra saxa in Algeria, Africa occidentali, ad Promontorium Bonæ Spei: Ecklon et in insulis Teneriffa et Madera. — Europ., Asia, Austral., Amer. sept. — Var. **dendritica** (Pers. in Act. Wett. 2, I p. 16) Nyl. Scand. p. 192. — Supra lapides quartzosos ad Cabo negro in Angola: Welwitsch. — Europ. — Var. **erythrocardia** Müll. l. c. 1879 p. 290. — Supra saxa gneissica collium Gumango in territorio Nyamnyam: Schweinfurth. — Endem. — Var. **applicata**. Thallus fusconiger arcte adnatus, lobulis thallinis periphericis minutis, centro squamulatoareolatus. Sporæ late ellipticæ vel oblongæ longit. 0,007-10, crassit. 0,004-6 mm. Reactiones sicut in typo. — Supra saxa arenaria montium circa Kapstadt: MacOwan. — Endem.

331. P. perrugata Nyl. in Flora 1885 p. 296. — Supra saxa prope Brackfontain ad Promontorium Bonæ Spei: Ecklon (nonnihil dubia). — Pyrenæi, Austral.

332. P. Delisei (Duby l. c. p. 602) Nyl. l. c. 1872 p. 426. — Supra saxa silicea prope Constantine: Flagey. — Europ.

333. P. oleagina. Thallus olivaceofuscus substellaris coriaceus nitidus centro rugosus, lobis discretis convexis dichotomis, lobulis subcrenatis glaberrimis, subtus ochraceofuscescens, marginibus inflexis, rhizinis concoloribus crebris densis brevibus (lobis extremis subtus nudis). Apothecia mediocria, margine integro thallo concolore, disco nigro-fusco. Sporæ octonæ ellipsoideæ raro subglobosæ, longit.

(Parmelia)

0,007-9, crassit. 0,004-6 mm. Gelatina hymenea iodo cœrulescens. Thallus K (CaCl) $\bar{+}$ erythrinice tinctus. *P. prolixæ* et *Delisei* affinis sed sporis minoribus, latere inferiore alio, epithallo magis nitente. — Supra terram (?) prope Lydenburg in Transvaalia: MacLea in Hb. Rehmman. — Endem.

334. *P. conturbata* Müll. l. c. 1888 p. 44. — Supra saxa quartzosa in territorio Namaqua majore: Schinz. — Endem.

335. *P. fuliginosa* (Fr. in Dub. l. c. p. 602) Nyl. l. c. 1868 p. 346. — Saxicola in Monte Tabulari: Eaton; supra saxa granitica dilabentia in fastigio septentrionali Montis Leonis prope Kapstadt: MacOwan. — Europ.

336. *P. glabra* (Schaer. Spic. p. 466) Nyl. l. c. 1872 p. 548. — Corticicola in Algeria; saxicola prope Lydenburg in Transvaalia: MacLea et in insulis Teneriffa et Madera. — Europa.

337. *P. glabrans* Nyl. l. c. 1875 p. 15. — Supra saxa arenaria in Algeria: Paris. — Europa?

338. *P. prolixula* Nyl. in Cromb. Cap. p. 169. — Saxicola in Monte Tabulari: Eaton. — Endem.

339. *P. squamans*. Thallus fuscoolivaceus, foliaceus, centro squamulosus et arcte adnatus, K $\bar{+}$ luteus, CaCl =, K (CaCl) =. Apothecia majora, diam. 5—7 mm, disco fusco, margine pallidiore tenui subintegro nonnihil flexuoso. Sporæ octonæ longit. 0,007-8, crassit. 0,003-6 mm. A reliquis speciebus stirpis *P. olivaceæ* aut reactione aut sporis minoribus differt. — Supra terram prope Lydenburg in Transvaalia: MacLea in Hb. Rehmman. — Endem.

340. *P. Dregeana* Hmpe., Nyl. Syn. I p. 398. — Supra saxa quartzosa ad Promontorium Bonæ Spei: Drège. — Endem.

341. *P. lichinoidea* Nyl. in Cromb. Cap. p. 169. — Inter muscos supra terram in summo Monte Tabulari: Eaton. — Endem.

342. P. pilosa. Thallus cinereus mediocris coriaceus stellatus planus glaber opacus, centro pseudocyphellis crebris densis scabrosus, lobis pedatopinnatifidis, lobulis incisocrenatis, pilis marginalibus nigris densis crassiusculis furcatis vel 3—4-fidis, circa 1 mm longis, subtus niger rhizinis densis crassis brevibus concoloribus. $K \bar{+}$ sublutescens. Apothecia non visa. — Saxicola in montibus trachyticis Taaibosch-Kranz ad Rhenoster-Rivier in republica Oranje: A. Rehmman. — Endem.

343. P. hottentotta (Thunb. Prodr. Cap. p. 178) Ach. l. c. p. 219. Syn. *Parm. stictella* Mass. Cap. p. 52 et *Gyrophora lecanorocarpa* Krmph. in Abh. zool.-bot. Gesellsch. Wien XXV p. 440. — Supra saxa raro truncos arborum in Promontorio Bonæ Spei (Arn. exs. 1097 et Lojka Lichenoth. 64); prope Lydenburg in Transvaalia: MacLea. — Endem.

344. P. physodes (L. Spec. p. 1146) Ach. l. c. p. 250. — In Algeria et insulis Canariis et Madera: Fritze. — Europ., Asia arct. et orient., Austral., Tasman., Amer. bor. et antarct. — Var. **labrosa** Ach. L. U. p. 493. — Supra corticem arborum in montuosis ad Blidah prope Alger: Tra-but. — Europ.

345. *P. vittata (Ach. Meth. p. 251) Nyl. in Flora 1875 p. 106. — Supra corticem arborum in Madera. — Europ., China, Amer. sept.

346. P. lugubris Pers. in Gaud. Uran. p. 196, Nyl. in Cromb. Falkl. p. 228. — In Monte Tabulari: Rehmman. — Austral., Amer. austral.

347. Parmeliopsis ambigua (Wulf. in Jacq. Coll. IV p. 239) Nyl. Scand. p. 105. — Supra cortices et ligna in montibus Kabyliæ: La Perraudière. — Europ., Asia arct., Amer. sept.

(Stictina)

348. *Stictina argyracea* (Bory Voy. fide Del. St. p. 91) Nyl. Syn. I p. 334. — Corticicola in Promontorio Bonæ Spei, et in insulis Sancti Thomæ: Moller, Borbonia, Sancti Mauritii, Madagascar et Johanna: Hildebrandt. — Zeylan., Java, Polyn., Brasil. — F. **aspera** Laur. in Linn. 1827 p. 41. — In insula Sancti Mauritii: Sieber. — Brasil. — F. **flavescens** (Del. l. c. p. 117) Nyl. l. c. — In Promontorio Bonæ Spei: Wilms et in Borbonia: Bory. — Endem. — Var. **rigidula** (Bory, Del. l. c. p. 97) Nyl. Nat. p. 5. — In Port Natal: Armstrong-Mackenzie et in Borbonia: Bory. — Endem. — Var. **isidiata** Nyl. in Cromb. Rodr. p. 435. — Corticicola in insula Rodriguesii: Balfour. — Endem. — Var. **sorediifera** (Del. l. c. p. 92) Nyl. Syn. I p. 335. — In Madagascar. — Chile.

349. *S. intricata* (Del. l. c. p. 96) Nyl. l. c. p. 334. — Supra truncos arborum in Promontorio Bonæ Spei, Port Natal et in insulis Borbonia, Sancti Mauritii, Teneriffa et Madera: Jelinek. — Hibern., Zeylan., Java, Amer. austral. — Var. **gymnoloma** Nyl. l. c. p. 335. — In Teneriffa: Despréaux. — Inss. Fidschi. — Var. **obscurior** Nyl. l. c. — In insula Tristan d'Acunha. — Endem. — Var. **Thouarsii** (Del. l. c. p. 90) Nyl. l. c. — In Port-Natal, Madera, Teneriffa, Tristan d'Acunha et Madagascar. — Britan., Hibern., Java, Nov.-Zel. — Var. **subargyracea** Nyl. in Flora 1886 p. 172 et Nov.-Zel. p. 29. — In insulis Teneriffa et Sancti Thomæ. — Hibern., Nov.-Zel.

350. **S. Hesseana* (Mey. in Spr. Syst. Veg. p. 330) Krmplh. Austr. p. 335. — Ad Promontorium Bonæ Spei: Hesse. — Endem.

351. *S. dissimilis* Nyl. (Syn. I p. 336) Consp. Stict. p. 1. — Corticicola in insula Rodriguesii: Balfour. — Austral. felix, Tasman., Nov.-Zel.

352. S. tomentosa (Sw. Ind. occ. 3 p. 1903) Nyl. Syn. I p. 343. — Corticicola ad Port Natal: Armstrong-Mackenzie, in insulis Madagascar: Rutenberg et Sanctæ Helenæ: Burchell, Melliss. — Inss. Sandw., Amer. calid. — Var. **pericarpa** Nyl. (Exot. p. 214) Consp. Stict. p. 5. — In insula Madagascar. — Peruv.

353. S. crocata (L. Mant. II p. 310) Nyl. Syn. I p. 338. — Muscicola et corticicola in insulis Madera, Canariis, Sanctæ Helenæ: Melliss, in Promontorio Bonæ Spei, Transvaal: Rehmman et in insulis Mascarenis et Sancti Mauritii. — Brit., Hibern., Hisp., Zeylan., Java, Austral., Nov.-Zel., Polynes., Amer. utraque. — Var. **luridofuscens** Krmplh. Exot. p. 316. — In insula Sancti Mauritii. — Endem.

354. S. gilva (Thunb. l. c. p. 178) Nyl. l. c. p. 339. — Supra saxa et cortices in Promontorio Bonæ Spei. — Inss. Maclov.

355. S. carpoloma (Del. l. c. p. 159) Nyl. l. c. — Corticicola in insulis Borbonia et Sancti Mauritii: Sieber (4). — Java, Austral., Polynes., Tasman., Nov.-Zel., Amer. austral. — Var. **albocyphellata** Nyl. l. c. p. 340. — In Natalia: Armstrong-Mackenzie et Borbonia. — Endem.

356. S. Mougeotiana (Del. l. c. p. 62) Nyl. l. c. — Corticicola in insulis Socotra: Schweinfurth, Sancti Mauritii, Borbonia, Madagascar, Sanctæ Helenæ. — Java, Austral., Polynes., Amer. calida. — Var. **xantholoma** (Del. l. c. p. 63) Nyl. l. c. p. 341. — Iisdem locis ac typus. — Inss. Sandwich., Nov.-Caled. — Var. **aurigera** (Bory, Del. l. c. p. 54) Nyl. l. c. — Iisdem locis. — Java, inss. Sandw., Nov.-Caled. — Var. **albocyphellata** Nyl. l. c. — In insula Borbonia. — Endem.

357. S. cometia (Ach. l. c. p. 227) Nyl. l. c. var. **minor** Laur. Hb. — Corticicola in insula Sancti Mauritii: Sieber (Hb. Krmplh.). — Endem.

(Stictina)

358. S. quercizans (Mich. Fl. Bor. Am. II p. 324) Nyl. l. c. p. 344. — Supra cortices et saxa muscosa in Guinea, in Africa australi et in insulis Borbonia et Sancti Mauritii. — Java, Austral., Tasman., Polynes., Amer. utraque. — Var. **strictula** (Del. l. c. p. 112). — In insulis Sancti Mauritii, Borbonia et Madagascar. — Nov.-Caled. — Var. **peruviana** (Del. l. c. p. 88). Syn. *Sticta Chiarinii* Jatta Afr. p. 171. — In Schoa Africæ orientalis: Antinori. — Zeylan., inss. Sandwich., Amer. calida.

359. S. macrophylla (Bory, Del. l. c. p. 110) Nyl. in Flora 1869 p. 118. — In insulis Borbonia, Sancti Mauritii et Madagascar. — Austral., Brasil. — F. **badia** (Moug. Hb., Del. l. c. p. 113) Müll. Rev. Feean. p. 13. — In insulis Borbonia et Sancti Mauritii. — Nov.-Holland., Amer.?

360. S. Ambavillaria (Bory Voy. 3 p. 100) Nyl. Syn. I p. 346. — Supra truncos et ramos arborum in Promontorio Bonæ Spei: Drège et in insulis Madagascar et Mascarenis. — Inss. Sandwich. — Var. **papyrina** Nyl. l. c. — In insulis Borbonia et Madagascar. — Endem.

361. S. limbata (Sm. l. c. t. 1104) Nyl. l. c. — In regno Schoa fertilis supra truncos muscosos: Antinori, in Natalia: Rehmann, in Transvaalia: Wilms. — Europa, præcipue occid., Oregon. — Var. **umbilicariæformis** (Hochst. in Schimp. coll. Abyss. 439) Nyl. l. c. p. 347. — Supra truncos *Ericarum* in montibus Abyssiniæ 3000 m: Schimper. — Endem.

362. S. fuliginosa (Dicks. Pl. crypt. 1 p. 13) Nyl. l. c. — In Guinea, Abyssinia, Africa australi et in insulis Borbonia et Madagascar. — Europa temperat. et merid., Zeylan., Nov.-Zel., Amer.

363. S. sylvatica (L. Syst. nat. p. 712) Nyl. l. c. p. 348. — In Algeria, in Monte Tabulari: Rehmann. — Europ., Amer. sept.

364. S. Dufourii (Del. l. c. p. 78) Nyl. l. c. Syn. *Sticta Hildenbrandii* Fr. MS. — Supra truncos arborum in insulis Canariis, Madera (Mand. Mad. 41) et Sancti Mauritii: Sieber (51). — Europa occid.

365. S. orbicularis (Al. Braun in Hb. Nees) Nyl. l. c. p. 350. — In insula Borbonia. — Ind. or., Java.

366. Lobarina scrobiculata (Scop. Fl. Carn. p. 348) Nyl. in Flora 1877 p. 233. — Supra truncos arborum et saxa muscosa prope Kooksbosch in Promontorio Bonæ Spei: Breutel, Zeyher, in regno Schoa: Antinori, in Algeria et in insulis Madera: Jelinek et Teneriffa: Despréaux. — Europ., Asia, Austral., Amer. sept.

367. L. retigera (Bory l. c. p. 101) Nyl. l. c. 1886 p. 172. — Supra truncos arborum muscosos in Schoa: Antinori, in Africa australi: Rehmman, in insulis Sancti Thomæ: Moller, Sancti Mauritii: Sieber, Borbonia et Madagascar. — Asia. — Var. **isidiosa** (Müll. in Flora 1882 p. 300). — In insulis Borbonia: Richard et Johanna: Hildebrandt. — Nepal, Zeylan., Java.

368. Lobaria linita (Ach. l. c. p. 234) Rbh. Deutsch. Krypt.-Fl., Lich. p. 65. — Sterilis supra terram muscosam in Schoa: Antinori. — Europ., Amer. sept., Fret. Bering.

369. L. pulmonacea (Ach. L. U. p. 449) Nyl. l. c. 1877 p. 233. — Supra truncos arborum in Africa boreali, in regno Schoa: Antinori, in Africa australi: Gueinzius, Breutel, Rehmman, MacLea et in insulis Madera et Canariis. — Cosmopolita. — Var. **papillaris** (Del. l. c. p. 144). — In insulis Madera: Fritze, Teneriffa et Sancti Mauritii: Sieber. — Gall. occid., Austral. — Var. **hypomela** (Del. l. c.). — In Promontorio Bonæ Spei, in Transvaalia: Wilms et in insula Madera: Mandon (Mad. 26), Jelinek. — Gall. occid., Austral., Amer. sept.

(Sticta)

370. *Sticta damæcornis* (Sw. l. c. p. 1900) Ach. Meth. p. 270. — Supra cortices in Promontorio Bonæ Spei et in insulis Azoreis: Godmann, Madera (Mandon Mad. 25): Jelinek, Sancti Mauritii, Borbonia, Madagascar et Johanna. — Hibernia, Austral., Polyn., Amer. — Var. **Canariensis** (Bory, Del. l. c. p. 114) Ach. Syn. p. 231. — In insulis Madera, Canariis et Madagascar: Rutenberg. — Ind. occid., Brasil. — Var. **polita** Laur. in Linn. 1827 p. 42. — In insula Sancti Mauritii: Sieber in Hb. Lahm. — Endem. — Var. **fucoides** Laur. l. c. — Ibidem: Ritter. — Endem.

371. *S. sinuosa* Pers. in Gaud. Uran. p. 199, Nyl. in Flora 1869 p. 117, 118. — In insula Comorensi Johanna: Hildebrandt. — Inss. Philipp., Amer. — Var. **rufa** (Willd., Del. l. c. p. 47) Müll. l. c. 1885 p. 532. — In insula Madagascar: Hildebrandt. — Amer. austral.

372. *S. caperata* Bory Hb., Nyl. l. c. 1869 p. 118. — In regno Schoa: Antinori, in insulis Borbonia et Madagascar. — Java, Polynes.

373. *S. dichotoma* Del. l. c. p. 107, Nyl. Consp. Stict. p. 7. — Corticicola in insulis Sancti Mauritii et Borbonia. — Endem.

374. *S. plumbea* Moug. Hb., Del. l. c. p. 109, Nyl. in Flora 1869 p. 118. — In insulis Madagascar: Pool et Borbonia: Bory. — Endem.

375. *S. platyphylla* Nyl. Syn. I p. 357. — Truncicola in Schoa: Antinori. — Nepal, Himalaya.

376. *S. variabilis* (Bory Voy. 3 p. 101) Ach. L. U. p. 455. — Supra cortices in Africa australi et in insulis Sancti Mauritii, Borbonia, Madagascar et Johanna: Hildebrandt. — Java, Austral., Nov.-Zel., Polynes., Brasil. — Var. **linearifolia** Nyl. l. c. p. 358. Syn. *St. glaberrima* Laur. l. c. p. 42. — In insula Sancti Mauritii: Sieber. — Endem.

377. S. endochrysa Del. l. c. p. 43. — Prope Lydenburg in Transvaalia: Wilms. — Chile, inss. Maclov.

378. S. Urvillei Del. l. c. dernière addit. p. 599. — Inter muscos in Schoa: Antinori, supra corticem arborum in insula Johanna: Hildebrandt. — Chile, Nov.-Zel., inss. Maclov., Fret. Magell.

379. S. aurata (Sm. MS.) Ach. Meth. p. 277. — Supra saxa muscosa truncosque arborum in Schoa: Antinori, Natalia et Transvaalia: Rehmann, Wilms, in Promontorio Bonæ Spei, in insulis Madera (Mand. Mad. 19), Canariis, Sanctæ Helenæ: Siebold, Burchell, Melliss, Madagascar, Mascarenis, Rodriguesii et Socotra 1000 m: Schweinfurth. — Europ. occid., Asia trop., Austral., Polyn., Amer. temp. et trop. — Var. **angustata** (Del. l. c. p. 52) Nyl. l. c. p. 361. — In insulis Borbonia: Bory et Madagascar. — Nov.-Zel.

380. S. fossulata Duf. Hb., Nyl. l. c. p. 363 et Nov.-Zel. p. 37 var. **subcyphellata** Nyl. Syn. I p. 364. — In insula Madagascar. — Nov.-Zel., Chile.

381. S. Rutenbergii Krmplh. in Abh. naturw. Verein. Bremen VII p. 54. — Corticicola in insula Madagascar: Rutenberg. — Endem.

382. Ricasolia marginata Müll. in Flora 1884 p. 615. — Ramulicola in Madagascaria centrali: Hildebrandt. — Endem.

383. R. discolor (Bory, Del. l. c. p. 136) Nyl. l. c. p. 367. — Supra cortices in insulis Madagascar et Borbonia. — Ind. orient., Polynes., Amer. calid.

384. R. dichroa Nyl. Exot. p. 254. — Supra cortices in Madagascar: Pervillé et Borbonia: Boivin. — Endem.

385. R. Comorensis Krmplh. Afr. p. 138. — In insula Comorensi Johanna: Hildebrandt et in Madagascar. — Endem.

(Ricasolia)

386. *R. glomulifera* (Lightf. Scot. p. 853) DN. Framm. p. 7. — Supra saxa et truncos arborum in Algeria: Europ., Asia, Amer. sept., Nov.-Zel.?

387. *R. herbacea* (Huds. Fl. Angl. p. 544) DN. l. c. — Supra saxa et truncos arborum in insulis Azoreis, Madera, (Mand. Mad. 28) Canariis: Husnot et ad Promontorium Bonæ Spei. — Europ., Zeylan., Amer. sept. — F. **Guthnickii** (Naeg. in Hb. Schaer.). Thallo magis nitido differt. — Truncicola in insulis Azoreis: Guthnick. — Endem.

388. *R. erosa* (Eschw. Bras. p. 211) Nyl. Syn. I p. 371 et Consp. Stict. p. 10. — Supra truncos arborum in Promontorio Bonæ Spei et in Natalia superiore: Rehmann, in Transvaalia: MacLea, Rehmann. — Amer. sept. et æquatorial.

389. *R. sublævis* Nyl. in Mand. Mad. exs. 30 et in Consp. Stict. p. 10. Syn. *R. patinifera* (Tayl. in Hook. Journ. Bot. 1847 p. 172) Müll. in Flora 1888 p. 24. — In Promontorio Bonæ Spei: Ecklon, in Port Natal: Armstrong-Mackenzie, in Transvaalia: Wilms, in insulis Madera: Mandon, Borbonia, Sancti Mauritii: Sieber et Madagascar. — Austral., inss. Sandwich., Amer. merid. calid.

390. *R. interversans* Nyl. in Flora 1886 p. 172. — Corticicola in insula Sancti Thomæ 1500—2100 m: Moller. — Endem.

391. *Nephromium lævigatum* (Ach. Syn. p. 242) Nyl. Scand. p. 87. — Inter muscos supra saxa, terram et arbores in Algeria, Africa meridionali: Breutel, Gueinzius, Wawra, in insulis Madera (Mand. Mad. 31) et Canariis. — Europ., Java, Nov.-Zel., Amer. sept. et antarct.

392. *N. helveticum* (Ach. L. U. p. 523) Nyl. in Hue Add. p. 50. — In Africa australi: Gueinzius, Breutel, MacOwan, Rehmann et in insula Borbonia. — Europ., Asia, Polyn., Amer. utraque.

(Nephromium)

393. N. tomentosum (Hffm. D. Fl. II p. 108) Nyl. Scand. p. 86. — In Algeria: Durieu et ad Rabacal in insula Madera: Fritze. — Europ., Amer. sept.

394. N. Lusitanicum (Schaer. En. p. 323) Nyl. in Flora 1870 p. 38. — Supra corticem *Cedri* in monte Atlante: Trabut. — Europ. merid., Java, Calif., Vancouver Isl.

395. Peltigera malacea (Ach. Syn. p. 240) Fr. L. E. p. 44. — In Algeria: Durieu et ad Promontorium Bonæ Spei: Wawra (hæc nonnihil dubia). — Europ., Asia arct., Himalaya, Terra Kerguel., Amer. sept. et australiss.

396. P. canina (L. Suec. p. 1100) Hffm. l. c. p. 106. — Inter muscos supra terram, saxa et truncos arborum in Africa boreali, in Schoa: Antinori, in Africa australi, in insulis Canariis et Madera. — Europ., Asia, Amer. utraque.

397. *P. membranacea (Ach. L. U. p. 518) Nyl. in Zw. Heidelb. p. 20. — In insulis Madera (Mand. Mad. 18) et Teneriffa; in monte Boschberg Promontorii Bonæ Spei: MacOwan, in Natalia: Rehmann et Transvaalia: MacLea, Wilms. — Europ., Asia, Austral., Amer. utraque.

398. P. rufescens Hffm. l. c. p. 107. — Inter muscos in Africa boreali, Abyssinia: Schimper, Guinea, in insulis Madera et Teneriffa. — Europ., Asia, Nov.-Zel., Amer. utraque.

399. P. pulverulenta Tayl. l. c. p. 184, Nyl. Syn. I p. 325 et Nov. Granat. Ed. II p. 17 non Scand. p. 89. — Supra terram inter muscos in monte Silke Abyssiniæ: Schimper. — Europ., Amer. utraque.

400. P. spuria (Ach. Prodr. p. 159) DC. l. c. p. 406. — Supra terram in monte Kilimandscharo: Meyer et in insula Madera: Hartung. — Europ., Tasman., Nov.-Zel., Terra Kerguel., Amer. sept. et antarct.

401. P. polydactyloides Nyl. in Flora 1863 p. 265. — In montibus Camerun 2400 m. — Endem.

(Peltigera)

402. P. polydactyla (Neck. Meth. p. 132) Hffm. l. c. p. 106. — Supra muscos ad terram et basin truncorum in Africa continente usque ad Promontorium Bonæ Spei; in insulis Madera: Jelinek et Borbonia. — Europ., Asia, Polynes., Amer. utraque. — Var. **subspuria** Nyl. in Mand. Mad. exs. 52. — In insula Madera. — Endem. — Var. **hymenina** (Ach. L. U. p. 516 p. p.) Nyl. Scand. p. 90. — Supra terram inter muscos prope Kooksbosch in Promontorio Bonæ Spei: Breutel. — Europ., inss. Kerguel. et Marion.

403. *P. dolichorhiza Nyl. (Syn. I p. 327) Nov.-Zel. p. 43. — Supra terram in montibus Camerun 2100 m: Mann et in Madagascar: Hildebrandt, Rutenberg. — Austral., Nov.-Zel., Polyn., Amer. calid.

404. P. horizontalis (L. Mant. p. 132) Hffm. l. c. p. 107. — Inter muscos supra truncos arborum in Madera (Mand. Mad. 27). — Europ., Amer. sept.

405. P. cichoracea Del. in Hb. Lenorm. — Sterilis inter muscos in regno Schoa: Antinori. — (Distrib. geogr. mihi ignota.)

406. Solorinina Simensis (Hochst. apud Fw. in Linn. 1843 p. 16) Nyl. in Le Naturaliste 1884 No. 1 et in Flora 1884 p. 219. — In monte Silke Abyssiniæ 3300 m: Schimper. — Ind. orient., China. — Var. **limbata** (Nyl. Syn. I p. 330). — In Abyssinia. — Endem.

407. S.? sorediifera Nyl. (l. c. p. 331) in Le Naturaliste 1884 No. 1 et in Flora 1884 p. 219. — Ad Promontorium Bonæ Spei. — Endem.

408. Physcia flavicans (Sw. l. c. p. 1908) DC. l. c. p. 189. — Supra saxa, truncos et ramos arborum in Abyssinia, Promontorio viridi, in Africa australi, in insulis Madera, Canariis, Sancti Thomæ: Moller, Sanctæ Helenæ, Ascensionis, Sancti Mauritii, Madagascar et Socotra. — Europ.

occid., Zeylan., China, Java, Austral., Polyn., Amer. utraque. — Var. **intermedia** Müll. Lich. Mey. p. 309. — Ramulicola supra Kischen in insula Socotra 800 m: Schweinfurth. — Amer. austr. — Var. **minor** Cromb. Cap. p. 170. — Ramulicola in Monte Tabulari: Eaton. — Endem. — Var. **crocea** (Ach. l. c. p. 615) Nyl. Syn. I p. 407. — Supra truncos muscosos in Schoa: Antinori; supra ramos arborum in insula Rodriguesii: Balfour. — Ind. orient., Puertorico. — Var. **valida** Müll. in Flora 1885 p. 501. — Ramulicola ad Tschamtei in Duruma Africæ orientalis: Hildebrandt. — Endem.

409. ***P. exilis** Mich. l. c. p. 327, Dub. Bot. Gall. p. 611. — Ad Promontorium Bonæ Spei et in Transvaalia. — Armorica, Amer. austral.

410. ***P. acromela** (Pers. in Gaud. Uran. p. 208) Nyl. l. c. — Ramulicola ad Tschamtei in Duruma Africæ orientalis: Hildebrandt. — Brasil.

411. **P. villosa** (Ach. Meth. p. 254) Dub. l. c. — Ramulicola in Aegypto, Africa boreali, in insulis Canariis et Bourbonia. — Europ. merid., Lima, Peruv. — F. **brevior** Nyl. Aeg. p. 3. — Ramulicola in *Lycio Afro* et *Arabico* variis locis Aegypti et prope Grenna in agro Tripolitano: Pacho. — Turcomania.

412. **P. hypoglauca** Nyl. Syn. I p. 409. Syn. *Niorma derelicta* Mass. Cap. p. 84. — Supra ramulos in Promontorio Bonæ Spei. — Boliv., Nov.-Granat.

413. **P. holoxantha** Nyl. Nat. p. 5. — In Africa meridionali: Breutel. — Endem.

414. **P. chrysophthalma** (L. l. c. p. 311) DC. l. c. p. 401. Syn. *Tornabenia africana* Mass. — Supra cortices et ramulos arborum et *Cactos* in Algeria, Abyssinia, Marocco, prope flumen Gauritz, in Monte Tabulari, Transvaalia et in insulis Canariis. — Europ., Austral., Polyn., Amer. utraque. —

(Physcia)

Var. **pubera** (Ach. L. U. p. 502) Nyl. Syn. I p. 410. — Supra frutices in Promontorio Bonæ Spei et in Africa austro-occidentali. — Endem. — Var. **Capensis** (Ach. l. c.) Nyl. l. c. — In Promontorio Bonæ Spei: Thunberg, Breutel, Rehmann. — Chile. — Var. **denudata** (Hffm. Plant. Lich. t. XXXI f. 1.) DC. l. c. — In Africa occidentali. — German., Anglia, Amer. sept. — Var. **dilatata**. Thallus late lobatus, lobis parce divisus passim fenestratis. — In Transvaalia: MacLea. — Endem.

415. P. parietina (L. Suec. p. 1080) DN. Parm. p. 23. — Supra cortices, ligna et saxa in Abyssinia, Aegypto¹, Algeria, Sahara, Natal, Transvaalia, Promontorio Bonæ Spei, necnon in insulis Madera (Mand. Mad. 34) et Canariis. — Europ., Asia, Nov.-Zel., Amer. — Var. **ectanea** (Ach. l. c. p. 464) Nyl. Prodr. p. 60. — Supra lapides calcarios in Aegypto, Algeria, Marocco: Hooker, in Promontorio Bonæ Spei: Drège et in insulis Azoreis: Guthnick. — Europ., Austral., Amer. utraque. — Var. **imbricata** Mass. Sched. p. 41. — Supra truncos *Palmarum* prope Rosette et Damiette in Aegypto: Delise. — Europ. — Var. **subgranulosa** Nyl. in Flora 1876 p. 281. — Supra calcem numulithicam in Aegypto inferiore. — Palæst. — Var. **aureola** (Ach. l. c.) Nyl. Syn. I p. 411. — Saxicola in Aegypto mediterranea, Algeria, necnon in insulis Lanzarote, Madera: Hartung et Teneriffa: von Fritsch. Corticicola in Monte Tabulari. — Europ., Austral., ins. St. Paul. — Var. **virescens** Nyl. in Wedd. Bloss. p. 198. — Corticicola in Aegypto: Schweinfurth. — Europ., Oregon. — Var. **rutilans** (Ach. l. c. p. 415). — Super ramulos fruticum ad Promontorium Bonæ Spei: Drège. — Europ.

416. *P. ulophylla (Wallr. Fl. Germ. II p. 517) Nyl. in Lamy Cat. p. 45. — Saxicola in insulis Lanzarote et Madera: Hartung. — Europ., Turcoman.

¹ Prope Bir Krer cum *Celidio vario* lecta: Ehrenberg.

417. *P. polycarpa (Ehrh. Pl. cr. 137) Nyl. l. c. — Supra ramulos *Lycii* prope El Arisch Aegypti: Barbey, supra corticem arborum prope Constantine in Algeria: Flagey. — Europ., Amer. sept.

418. *P. macrophylla Stzb. in Flora 1886 p. 417. Thallus pallide citrinus vel vitellinus, lobis productis flaccidis applanatis adpressis typo latioribus et tenuioribus. Apothecia diam. circa 1 mm, pallide ceracea, margine diaphano concolore. Sporæ octonæ placodinæ, tubulo loculos parvulos jungente, longit. 0,012-14, crassit. 0,005-8 mm. — Super corticem *Sparmanniæ* in Monte Tabulari: Jelinek. — Endem.

419. *P. ectaneoides Nyl. in Flora 1883 p. 98. — Supra saxa Montis Tabularis: Jelinek. — Gall. merid.

420. P. lychnea (Ach. Meth. p. 187) Nyl. Scand. p. 117 var. **semigranularis** (Müll. in Flora 1887 p. 319). — Corticicola prope Lydenburg in Transvaalia: Wilms. — Endem.

421. P. flammea (L. fil. Suppl. p. 451) Nyl. Syn. I p. 412. — Supra cortices arborum in Promontorio Bonæ Spei et in terra Namaqua minore. — Endem.

422. P. intricata (Desf. Fl. Atl. 2 p. 420) Schaer. En. p. 11. — Ramulicola in Algeria, in Marocco australi et in insulis Canariis. — Europ. occid. et merid., Taurica et Peruv. — Var. **cylindrica** Mnt. Can. p. 97. — Supra *Cactos* in insulis Canariis: Bourgeau. — Peloponnes.

423. P. Magara (Kotschy Hb.) Krmplh. Exot. p. 323. — Prope El Arisch in Aegypto mediterranea. — Endem.

424. P. ciliaris (L. Syst. veg. p. 959) DC. l. c. p. 396. — Supra arborum truncos in Abyssinia, Africa boreali, prope Batna in Sahara et in insulis Canariis. — Europ., Asia min., China, Amer. sept. — Var. **saxicola** Nyl. En. p. 106 et Syn. I p. 414. — Prope Constantine in Algeria: Flagey; in insulis

(Physcia)

Canariis et Madera: Mandon (Mad. 42). — Europ. — Var. **crinalis** (Schleich. Cat.) Schaer. l. c. p. 10. — Supra terram in insula Madera: Castello. — Europ., Amer. sept.

425. P. leucomela (L. Spec. p. 1613) Mich. l. c. p. 356. — Supra truncos et ramulos arborum in Abyssinia et Schoa, Algeria, Guinea, Africa australi et in insulis Madera (Mand. Mad. 43), Canariis, Ascensionis, Sanctæ Helenæ, Madagascar, Borbonia, Socotra: Schweinfurth. — Europ., Asia, Austral., Polynes., Amer. utraque. — Var. **angustifolia** (Mey.-Fw. l. c. p. 221). — In Abyssinia, Schoa, Africa australi et in insulis Teneriffa, Sancti Thomæ: Moller, Ascensionis, Sanctæ Helenæ, Borbonia et Madagascar. — Asia, Polynes., Amer. calida. — Var. **subcomosa** Nyl. Syn. I p. 415. — Prope Lydenburg in Transvaalia: Wilms. — Himalaya, Austral., Amer. calid.

426. P. podocarpa (Bél. l. c. p. 122) Nyl. in Flora 1869 p. 322. — Ad Promontorium Bonæ Spei: Zeyher et in insula Borbonia. — Austral., Tahiti, Nov.-Granat.

427. P. barbifera Nyl. Syn. I p. 416 var. **podocarpiza**. Syn. *P. barbif.* v. *podocarpoides* Müll. in Flora 1884 p. 616 non Nyl. in Cromb. Chall. p. 225. — In Madagascaria centrali: Hildebrandt et in Borbonia: Lepervanche. — Cuba.

428. P. galactophylla (Willd. Hb., Tuck. Syn. New Engl. p. 32) Nyl. Ins. Guin. p. 12. — Supra *Coffeam* prope Saudade in insula Sancti Thomæ 750 m: Newton. — Amer. sept. calidior.

429. P. speciosa (Wulff. in Jacq. Coll. III p. 319) Nyl. Prodr. p. 61. — Supra cortices arborum, muscos, terram et saxa in Abyssinia, Guinea, in Africa australi, in insulis Madera, Borbonia et Rodriguesii. — Europ., Asia, Austral., Polynes., ins. St. Paul., Amer. utraque. — F. **cinerascens** Nyl. Syn. I p. 417. — Saxicola in montibus Kubbi et Saba Tensi Abys-

siniae: Schimper.¹ — Endem. — Var. **dactyliza** Nyl. l. c. — In Guinea et Madagascar. — Peruv.

430. *P. hypoleuca (Ach. Syn. p. 211) Nyl. in Flora 1886 p. 172. — Corticicola in Schoa: Antinori, in Guinea: Newton, in Africa australi, in insulis Ascensionis, Sanctæ Helenæ: Melliss, Sancti Thomæ: Moller, Madagascar et Bourbonia. — Scotia, Hibernia, Asia calidior, Polynes., Amer. utraque. — Var. **granulifera** (Ach. l. c. p. 212) Nyl. Syn. I p. 417. — Teste Strt. Add. in Africa australi. — Japon. — Var. **sorediifera** (Müll. l. c. 1885 p. 502). Syn. *P. obsessa* v. *hypochrysa* Krmplh. Afr. p. 141 p. p. — In insulis Johanna: Hildebrandt et Socotra: Schweinfurth. — Austral.

431. *P. coralliphora (Tayl. l. c. p. 164) Nyl. in Flora 1886 p. 172. — Corticicola in insula Sancti Thomæ 800—1350 m: Moller, Newton. — Peruv.

432. *P. obesa (Pers. l. c. p. 145) Nyl. Syn. I p. 418 f. **tenuior** Nyl. l. c. — E Promontorio Bonæ Spei. — Endem.

433. P. pulverulenta (Schreb. Fl. Lips. p. 118) Nyl. Alg. p. 311. — In Africa boreali, Transvaalia: Wilms et in insula Madera. — Europ., Cilicia, Syria, Amer. sept. — Var. **angustata** (Hffm. En. p. 71) Nyl. Syn. I p. 419. — In Algeria: Durieu. — Europ., Texas.

434. *P. deterosa Nyl. (l. c. p. 420) in Flora 1878 p. 344. — Super corticem *Cedri* prope Batna in Sahara: Norrlin, prope Constantine: Flagey. — Europ., Turcoman.

435. *P. venusta (Ach. Meth. p. 211) Nyl. Syn. I p. 421. — Prope Bône in Sahara supra corticem suberis et in insula Madera (Mand. Mad. 33). — Europ.

¹ Schimper specimen museo naturali aulico Caroliruhæ a se missum, quod quidem super saxa borealia montis Kubbi ipse invenerat, commonefacit ab Abyssiniciis ibi incolentibus nomine „Saba emmeni“ id est lac saxæum vocari.

(Physcia)

436. P. pityrea (Ach. Prodr. p. 124) Nyl. Prodr. p. 62 et in Lamy Cat. p. 47. — Saxicola in Algeria: Durieu, Flagey. — Europ.

437. P. Ascensionis (Ach. L. U. p. 422) Nyl. in Cromb. Chall. p. 212. — Supra scorias vulcanias in Promontorio viridi et in insula Ascensionis. — Endem.

438. P. crispa (Pers. l. c. p. 196) Nyl. Syn. I p. 423. — Corticicola in Senegambia, in Monte Leonis prope Kapstadt: MacOwan, in insulis Principis: Quintas, Borbonia, Johanna: Hildebrandt. Quartzicola ad Wadi Kischen in insula Socotra 650 m: Schweinfurth. — Himalaya, Polynes., Amer. utraque.

439. P. dilatata Nyl. l. c. — Supra cortices in Abyssinia, Guinea et in Monte Tabulari ad Promontorium Bonæ Spei: MacOwan. — Nov.-Granat.

440. P. integrata Nyl. l. c. p. 424. — Supra cortices in Transvaalia: Wilms, in terra Somali et in Madagascaria centrali: Hildebrandt; in insula Sancti Mauritii: Robillard. — Inss. Marianæ et Fidschi, Amer. calid.

441. P. stellaris (L. Suec. p. 1082) Nyl. Mnt.-D. 31. — Supra cortices in Abyssinia, Africa boreali, Sahara, Africa meridionali, in insulis Madera, Madagascar et Johanna: Hildebrandt. — Europ., Asia, Nov.-Zel., Amer. utraque. — Var. **leptalea** (Ach. Meth. p. 198) Nyl. in Flora 1870 p. 38. — Supra ramulos *Populi albæ* in Marocco: Hooker, Brun et supra corticem *Cedri* in Sahara: Norrlin. — Europ. — Var. **subobscura** Nyl. Syn. I p. 426. — Supra corticem *Cedri* prope Batna in Sahara: Norrlin. — Scand. — Var. **rosulata** (Ach. L. U. p. 477) Nyl. Scand. p. 111. — In Abyssinia, prope Meid in terra Somali: Hildebrandt. — Europ. bor.

442. P. tenella (Scop. Fl. Carn. p. 1406) DC. l. c. — In Algeria. — Europ., Turcoman., Amer. sept.

443. *P. dimidiata* (Arn. exs. 272) Nyl. in Flora 1881 p. 537. — Supra corticem arborum pomiferarum prope Lydenburg in Transvaalia: Wilms. — Europ.

444. *P. aipolia* (Ach. Syn. p. 207) Nyl. in Norrl. Tavast. p. 180. — Corticicola prope Constantine: Flagey, prope Alger: Trabut, prope Seriba Ghattas in Africa subcentrali: Schweinfurth, ad Promontorium Bonæ Spei: Drège, in Transvaalia: Wilms et in insula Teneriffa. — Europ., Amer. sept.

445. *P. endopyxinea* Müll. Diagn. Soc. p. 3. — Ramulicola in insula Socotra: Balfour, Schweinfurth. — Endem.

446. *P. astroidea* (Clem. Ens. add. p. 302) Fr. L. E. p. 81. — Corticicola in Africa boreali, in Abyssinia: Beccari, in Aegypto: Schweinfurth et in Promontorio Bonæ Spei: Zeyher. — Europ., Japon., China, Amer. sept.

447. *P. obsessa* (Mnt. Cub. p. 227 non Ach.) Nyl. Syn. I p. 426. — Supra cortices in insula Borbonia et supra Wadi Kischen in insula Socotra 600 m: Schweinfurth. Saxicola in insula Sancti Thomæ: Quintas. — Java, Polynes., Amer. calidior.

448. *P. cæsia* (Hffm. Pl. Lich. t. 8 f. 1) Nyl. Prodr. p. 62. — Teste Strt. in Africa australi. — Europ., Tonkin, Amer. utraque. — Var. ***teretiuscula*** (Ach. L. U. p. 479) Nyl. Scand. p. 112. — Supra lapides prope Pungo Andongo in Angola: Soyaux. — Suecia.

449. *P. venustula*. Thallus cinerascens firmus laciniato-divisus, laciniis subimbricatis linearibus subdichotome partitis brevibus, lobulis incisocrenatis parce albofibrillosis, subtus albidus, versus marginem fibrillis nigricantibus munitus. Apothecia crebra conferta latit. ad 5 mm, podicellata concava, receptaculo profunde incisocrenato vel laciniosulo-fimbriato, disco nigrofusco nudo. Hymenium superne pallide fus-

(Physcia)

cum, paraphysibus discretis. Sporæ octonæ 1-septatæ fuscae longit. 0,027-34, crassit. 0,012-14 mm. Thallus K extus intusque flavens. E stirpe *P. stellaris*, nonnihil ad *P. ciliarem* vergens; margo apotheciorum ei *P. venustæ* similis. — Super corticem arboris prope Durban in Natalia: Wilms. — Endem.

450. *P. obscura* (Ehrh. l. c. 177) Nyl. Prodr. p. 309. — Corticicola, saxicola et lignicola in Africa boreali, prope Keren in Abyssinia: Beccari et ad Promontorium Bonæ Spei. — Europ., Asia, Polyn., Amer. sept., Paraguay. — Var. **chloantha** (Ach. Syn. p. 217) Nyl. Scand. p. 112. — Corticicola in Dschebel Wasch prope Constantine 650 m: Flagey et in Durban Africæ australis: Wilms. — Europa. — Var. **virella** (Ach. Prodr. p. 108) Fr. fil. Scand. p. 142. — Prope Habab in Abyssinia: Hildebrandt. — Europa.

451. *P. lithotea* (Ach. Syn. p. 217) Nyl. in Flora 1877 p. 354. — Supra saxa calcaria prope Azeba 600 m: Flagey. — Europ., Fret. Bering.

452. *P. tribacoides* Nyl. l. c. 1874 p. 307. — Supra saxa arenaria in declivo septentrionali Montis Leonis prope Kapstadt: MacOwan. — Anglia, Gall. occid.

453. *P. endochrysea* (Hmpe. Hb., Nyl. Syn. I p. 427) id. in Flora 1875 p. 442. — Corticicola in Monte Tabulari ad Promontorium Bonæ Spei: MacOwan. — Alp. Rætic., Amer. utraque.

454. *P. endococcinea* (Krb. Pg. p. 36) Nyl. l. c. 1877 p. 354. — Supra saxa ad Promontorium Bonæ Spei: MacOwan et in insula Madera. — Transsylv., Anglia, China.

455. *P. purpurata*. Thallus obscure cinereofuscus stellatolaciniatus, laciniis adnatis pinnatis, lobulis crenatis appressis planis vel modice convexis, soreidiis parcis medullæ saturate roseopurpurascenti concoloribus. K⁺ (medulla nigri-

cante). Apothecia ignota. A *P. lithotea* lobis latioribus et colore medullæ distat. — Super saxa in Africa australi pluries lecta: MacOwan. — Endem.

456. *P. ulothrix* (Ach. Prodr. p. 113) Nyl. l. c. 1875 p. 360. — Corticicola in Algeria: Durieu. — Europ., Turcomania, China.

457. *P. minor* (Fée Ess. p. 125 et Suppl. p. 122, Nyl. Syn. I p. 429). — Corticicola in Promontorio viridi. — Endem.

458. *P. adglutinata* (Flk. in Moug. St. Vog. 543) Nyl. in Flora 1862 p. 355. — Supra cortices et ligna prope Keren et Habab in Abyssinia: Beccari, Hildebrandt, prope Lydenburg in Transvaalia: Wilms. — Europ., China, Nov.-Caled., Amer. utraque.

459. *P. disjuncta* Krmplh. Afr. p. 141. — Supra saxa silicea in terra Somali: Hildebrandt. — Endem.

460. *P. obscurella* Müll. l. c. — Quartzicola ad Wadi Kischen in insula Socotra 650 m: Schweinfurth. — Endem. — Var. ***fusca*** Müll. l. c. cum typo. — Endem.

461. *P. affixa* Nyl. in Cromb. Cap. p. 170. — Saxicola in Monte Tabulari: Eaton. — Endem.

462. *P. setosa* (Ach. Syn. p. 103) Nyl. Syn. I p. 429. — Super saxa, terram et cortices arborum in Abyssinia: Schimper, Transvaal: Rehmman, Wilms, Port Natal: Armstrong-Mackenzie et in monte Boschberg prope Sommerset East in Africa australi: MacOwan. — Europ., Asia, Austral., Polynes., Amer. utraque. — F. ***deminuta*** Cromb. Cap. p. 170. — Saxicola in Monte Tabulari: Eaton. — Endem.

463. *P. sparsa* (Tayl. l. c. p. 175) Nyl. l. c. (Cfr. Müll. in Flora 1888 p. 201). — Corticicola in insula Sancti Vincentii. — Endem.

(Physcia)

464. P. picta (Sw. l. c. p. 1890) Nyl. l. c. p. 430. — Supra cortices arborum in Abyssinia: Beccari, Aethiopia: Kotschy, circa Seriba Ghattas in Africa subcentrali: Schweinfurth, in Monte Tabulari et prope Lydenburg in Transvaalia: Wilms, in insulis sinus Guineensis: Newton, Borbonia, Socotra: Schweinfurth. Saxicola in insula Principis: Newton. — Asia, Austral., ins. St. Paul., Polynes., Nov.-Zel., Amer. utraque. — F. **sorediata** (Schaer. in Hb. Zoll., Hepp in Zoll. Syst. Verz. p. 6) Müll. Afric. p. 33. — Super truncos *Palmarum* aliarumque arborum secus flumen Quillu: Peschuel-Loesche, in territorio Sansibar: Hildebrandt, in Transvaalia: Wilms, in Abyssinia: Hildebrandt, in insula Socotra: Schweinfurth. — China, Cochinchina, Timor, Java, Paraguay. — Var. **erythrocardia** (Tuck. Syn. North Amer. p. 79). Syn. *Physc. picta* v. *coccinea* Müll. in Flora 1885 p. 503. — Ramulicola ad ostium fluminis Kongo: Paul Hesse, ad Tschamtei in Africa orientali: Hildebrandt, prope Lydenburg in Transvaalia: Wilms. — Texas. — Var. **rupicola** Bagl. Abyss. p. 242. — Supra saxa granitica montis Deban Abyssiniæ borealis: Beccari et ad ostium fluminis Banya prope Mayumbo: Peschuel-Loesche, ad Seriba Ghattas: Schweinfurth, in Socotra: Balfour. — Endem. — F. **isidiophora** Nyl. in Flora 1867 p. 3. Syn. *P. obsessa* var. *hypochrysa* Krmplh. Afr. p. 141 p. p. — Cum præcedente ad flumen Banya: Pechuel-Loesche, in insula Johanna: Hildebrandt. — Calcutta.

465. *P. Africana Müll. Afr. p. 33. — Lapidicola prope Pungo Andongo in Angola: Soyaux, in collibus Gumango territorii Nyamnyam: Schweinfurth et prope Lydenburg in Transvaalia: Wilms. — Endem.

466. *P. leucothrix (Tayl. l. c. p. 170) Nyl. Syn. I p. 430. — In insula Sancti Vincentii. — Endem. — Cfr. Tuck. Syn. N. Amer. p. 74 et Müll. in Flora 1888 p. 199.

467. *P. subpicta Nyl. in Cromb. Cap. p. 171. — Saxicola in Monte Tabulari: Eaton. — Endem.

468. *P. ægialita (Ach. Meth. p. 192) Nyl. Exp. Nov.-Caled. p. 43 (nota) et in Flora 1869 p. 322. — In Africa australi: Breutel, super sepimenta circa Magnam Seriba Ghattas in Africa subcentrali: Schweinfurth; saxicola in Guinea: Afzelius et in insula Rodriguesii: Balfour. — Asia merid., Polynes.

469. Pyxine Meissneri Tuck. Hb., Nyl. Exot. p. 255. — In Aethiopia: Kotschy, Port-Natal: Armstrong-Mackenzie et in insula Sancti Thomæ: Moller. — Zeylan., Calcutta, Java, inss. Fidschi, Antill., Amer. calida. — Var. **endoleuca** Müll. in Flora 1879 p. 290. — Super sepimenta in Magna Seriba Ghattas territorii Dschur: Schweinfurth; supra truncos *Aloës* in insula Socotra: Balfour et saxicola prope Lydenburg in Transvaalia: Wilms. — Endem. — Var. **sorediosa** Müll. l. c. — Supra saxa (Brauneisenstein) in territorio Dschur: Schweinfurth. — Bengal. occid., Austral., Paraguay.

470. P. Cocoës (Sw. l. c. p. 1801) Nyl. En. p. 108. — Corticicola prope Keren in Abyssinia: Beccari, ad Promontorium Bonæ Spei: Drège, in Natalia: Armstrong-Mackenzie, in Transvaalia: Wilms et in insula Borbonia. — Asia, Austral., Polynes., Amer. austral. — Var. **isidiophora** Müll. l. c. 1882 p. 319. — In Madagascaria centrali: Hildebrandt. — Cuba, Zeylan.

471. P. sorediata (Ach. Syn. p. 54) Fr. S. O. V. p. 267, Nyl. Antill. p. 10. — In Africa occidentali: Newton et in insulis Azoreis: Hartung. — Asia, Polynes., Amer. utraque.

472. P. retirugella Nyl. Exot. p. 240 et Syn. II p. 3. — In insula Sancti Mauritii: Robillard. — Japon., Polynes., Amer. æquinoct.

(Pyxine)

473. P. convexa Müll. Diagn. Soc. p. 4. — Ramulicola et sæpe cæspitibus *Roccellæ Montagnei* obtecta in insula Socotra: Balfour, Schweinfurth. — Endem.

474. P. petricola Nyl. in Cromb. Rodr. p. 435. — Saxicola in insula Rodriguesii: Balfour. — Endem.

475. Umbilicaria pustulata (L. Spec. p. 1150) Hfm. l. c. t. 28, 29 f. 4. — Super saxa in insula Madera (Mand. Mad. 22). — Europ., China, Amer. sept. — F. **minor** Nyl. in Cromb. Cap. p. 171. — In Monte Tabulari: Eaton. — Endem. — Var. **papillata** Hmp., Tuck. Syn. North Am. p. 82. — In Promontorio Bonæ Spei. — Endem.

476. U. membranacea Laur. Hb. — Saxicola in Promontorio Bonæ Spei: Drège. — Endem. — Bona videtur species: thallus tenuiter membranaceus cinerascens epruinosis glaber, subtus pallidus, lævigatus; apothecia minora (diam. ad 0,8 mm). Hymenium superne nigrofuscum in hypothecio pallido, paraphysibus discretis gracilibus, thecis amplis mono-vel bisporis. Sporæ muriformes, longit. 0,06-10, crassit. 0,028-50 m; gelatina hymenea imprimis thecarum iodo cœrulescens. Cfr. Nyl. Syn. II p. 5.

477. U. papulosa (Ach. L. U. p. 226) Nyl. En. p. 107. — Saxicola in Promontorio Bonæ Spei. — Himalaya, Amer. sept.

478. U. glauca. Thallus suborbicularis diam. 5-7 cm, membranaceus firmus glaucocinereus, pulvere quasi grosso densissime obductus, nonnihil papulosus et rimulosus, subtus nudus niger asper parce radiatim striatus, lacunis foveolaribus parcis. Apothecia mediocria sessilia lecideina, margine nigro crasso scabro, disco concolore. Epithecium fusconigrum, hypothecium incolor, paraphyses discretæ. Sporæ solitariae vel (in thecis junioribus) binæ fuscae ellipsoideae muriformes longit. 0,060-80, crassit. 0,025-37 mm. Thallus K

(CaCl) + erythrinicus. — Supra saxa in præruptis Montis Tabularis ad Promontorium Bonæ Spei: MacOwan. — Endem.

479. **U. rubiginosa** Pers. l. c. p. 202, Nyl. Syn. II p. 6 et in Flora 1860 p. 418. — Saxicola in Promontorio Bonæ Spei. — Endem.

480. **Gyrophora spodochoa** (Hffm. D. Fl. II p. 113) Ach. Meth. p. 108. — Saxicola in Kabyliæ montibus: La Perraudière. — Europ., Amer. sept.

481. **G. crustulosa** Ach. L. U. p. 673, Nyl. in Flora 1877 p. 232. — Saxicola in Madera: Mandon (Mad. 20), Lowe. — Europ.

482. **G. vellea** (L. Spec. p. 1150) Ach. Meth. p. 109. — In insula Teneriffa: v. Fritsch. — Europ., Zeylan., Amer. sept.

483. **G. aprina** Nyl. Syn. II p. 12. — Saxicola in monte Dedschen Abyssiniæ 4260 m: Schimper et in insula Teneriffa: v. Fritsch. — Endem.

484. **G. cylindrica** (L. Spec. p. 1144) Ach. l. c. p. 107. — In alpihus Abyssiniæ 4600 m. — Europa, Australia, Amer. sept.

485. **G. tornata** Ach. L. U. p. 222. — In Monte Tezi territorii Maroccani meridionalis: Hooker. — Europ.

486. **Coccocarpia plumbea** (Lightf. Scot. p. 826) Nyl. Scand. p. 128. — Supra truncos arborum et saxa in Africa boreali, in insulis Madera (Mandon Mad. 14) et Canariis. — Europ. occid., Amer. sept.

487. **C. molybdæa** Pers. l. c. p. 206. — Supra cortices et muscos in insulis Sancti Thomæ: Newton, Borbonia et Rodriguesii. — Asia or., Polynes., Amer. calid. — Var. **tenuior** Nyl. apud Krmplh. in Flora 1876 p. 76. — In insula Sancti Mauritii. — Zeylan., Amer. centr. et austr.

(Coccocarpia)

488. C. aurantiaca (Tayl.-Hook. Lich. antarct. p. 634) Mnt.-v. d. Bosch Jav. p. 39. — Supra arborum truncos in sylvis insularum Madagascar et Johanna: Hildebrandt. — Asia orient., Austral., Nov.-Caled., Amer. calid.

489. C. aphthosa Jatta in N. Giorn. Bot. Ital. 1882 p. 173. — Supra cortices in Schoa: Antinori. — Endem.

490. C. erythrocarpa (Del. Hb., Nyl. Exot. p. 256) id. Syn. II p. 44. — Supra cortices et ligna putrescentia in insulis Borbonia et Madagascar. — Tahiti.

491. Pannaria lurida (Mnt. Syll. p. 376) Nyl. Exot. p. 257. — Corticicola in insulis Borbonia et Madagascar. — Asia orient., Polynesia, Amer. sept.

492. P. luridula Nyl. in Cromb. Rodr. p. 436. — Supra terram in insula Rodriguesii: Balfour. — Endem.

493. P. pannosa (Sw. l. c. p. 1888) Del. in Dict. class. XIII p. 20. — Supra cortices et saxa in insulis Borbonia et Sancti Mauritii. — Asia orient., Polyn., Amer. calid.

494. P. rubiginosa (Thunb. l. c. p. 176) Del. l. c. — Supra saxa muscosa et arborum truncos in Africa occidentali et australi et in insulis Madera (Mandon Mad. 15), Madagascar et Borbonia. — Europ., Asia, Austral., Polyn., Amer. utraque. — F. **cinerascens** Nyl. l. c. — Saxicola in insula Rodriguesii: Balfour. — Endem. — Var. **radiata** Nyl. Exot. p. 256. — In insulis Borbonia et Madagascar. — Ind. occid., Amer. austr. — Var. **conoplea** (Ach. l. c. p. 467) Fr. L. E. p. 88. — Ad Promontorium Bonæ Spei: Wawra, MacOwan et in insula Madagascar. — Europ. temp., Amer. utraque. — Var. **dispartita** Nyl. in Cromb. l. c. — Supra truncos emortuos in insula Rodriguesii: Balfour. — Endem. — Var. **phlœodes** (Strt. Add. p. 215). Sporæ citreiformes longit. 0,014, crassit. 0,009 mm. Supra cortices arborum vetustiorum vel emortuorum in monte Boschberg: MacOwan. — Endem.

495. *P. pholidota* (Mnt. Fernand. p. 85) Nyl. Syn. II p. 30. — Corticicola in insula Sancti Thomæ: Quintas. — Zeylan., Mexico, Amer. austr.

496. *P. nebulosa* (Hffm. l. c. p. 166) Nyl. L. P. 114. — Supra terram arenosam prope Bône in Sahara: Norrlin. — Europa.

497. *P. leucolepis* (Whlhb. Lapp. p. 420) Nyl. Scand. p. 123. — Supra saxa in Monte Tabulari ad Promontorium Bonæ Spei: MacOwan. — Europ., inss. Sandwich.

498. *Pannularia leucosticta* (Tuck. in Darl. Fl. Cestr. Ed. III p. 441). — In insula Madera: Mandon (Mad. 37). — Amer. sept. — Var. ***isidiopsis*** Nyl. in Cromb. Cap. p. 171. — Corticicola (?) in Monte Tabulari: Eaton. — Endem.

499. *P. microphylla* (Sw. in V. Ak. H. 1791 p. 301) Nyl. in Zw. Heidelb. p. 23. — Supra saxa in Algeria: Durieu et Madera. — Europ., Himalaya, Amer. utraque.

500. *P. triptophylla* (Ach. Syn. p. 53) Nyl. l. c. — Sterilis supra cortices arborum in Promontorio Bonæ Spei: Gueinzius. — Europ., Amer. sept.

501. *P. nigra* (Huds. l. c. p. 524) Nyl. in Stzb. L. H. No. 355. — Saxicola in Africa boreali et ad Promontorium Bonæ Spei: Kraus. — Europ., Nov.-Zel., Fret. Bering., Amer. sept.

502. *P. nigrocincta* (Mnt. Syll. p. 332) Nyl. Ins. Guin. p. 13. — In Africa æquinoctiali; etiam in Teneriffa: Despréaux et in insula Sancti Thomæ: Quintas. — Zeylan., Borneo, Austral., Tahiti, Amer. austr.

503. *P. mutabilis* (Müll. in Flora 1884 p. 616). — Corticicola inter muscos in Madagascaria centrali: Hildebrandt. — Endem.

504. *P. pityrella* (Strt. l. c. p. 216). „Apotheciis biatorinis, affinis *P. asterellæ* Nyl.“ ibid. — Corticicola prope

(Pannularia)

Bonny River in Africa occidentali: A. Grant teste Strt. — Endem.

505. Erioderma unguigerum (Bory Voy. p. 101) Nyl. Exot. p. 257. — In insulis Borbonia et Madagascar. — Zeylan.

506. E. polycarpum Fée Ess. p. 145. — Corticicola in insulis Borbonia: Lepervanche, Madagascar: Hildebrandt et Sanctæ Helenæ. — Zeylan., Nov.-Caled., Mexico. — Var. **hypomelænum** Nyl. Syn. II p. 48. — In insula Borbonia. — Endem.

507. Dermaticum Thunbergii (Ach. Meth. p. 129) Nyl. En. p. 116. — Supra rupes ad Promontorium Bonæ Spei: Thunberg, MacOwan (Lojka Lichenoth. No. 44). — Endem.

508. Heppia Rodriguesii Nyl. in Cromb. Rodr. p. 436. — Saxicola in insula Rodriguesii: Balfour. — Endem.

509. H. meiolepis Nyl. in Cromb. Chall. p. 212. — Saxicola in Promontorio viridi. — Endem.

510. H. psammophila Nyl. in Flora 1878 p. 339. — Supra arenam in Sahara prope Biskra: Norrlin. — Endem.

511. H. patellata (Bagl. Abyss. p. 245). Epithecium olivaceoluteum, paraphyses tenellæ filiformes discretæ, gelatina hymenea iodo vinose fulvescens. Sporæ globosæ diam. 0,005 mm. — Supra saxa granitica decomposita montis Deban: Beccari. — Endem.

512. H. virescens (Despr. in Hb. Bory) Nyl. En. p. 110. — Supra terram prope Keren in Abyssinia: Beccari et in montibus Canariæ: Despréaux. — Europ., Amer. sept.

513. H. reticulata (Duf. in Fr. L. E. p. 410) Nyl. in Flora 1878 p. 339. — Supra terram arenosam prope Biskra in Sahara: Norrlin. — Hispan.

514. H. turgida (Ach. Syn. p. 103) Nyl. l. c. — Supra terram arenosam prope Biskra in Sahara: Norrlin. — Lusitan.

515. H. crispatula Nyl. l. c. — Supra saxa calcaria prope Biskra in Sahara: Norrlin. — Endem.

516. H. obscuratula Nyl. l. c. — Super lapides calcarios, etiam super thallum *Lecanoræ calcareæ* prope Biskra in Sahara: Norrlin, ad Constantine: Flagey. — Endem.

517. Endocarpiscum Schweinfurthii Müll. l. c. 1879 p. 292 et Afr. p. 40. — In monte Baginse prope lacum Nyanza: Schweinfurth; ad saxa prope Pungo Andongo in Angola: Soyaux. — Endem. — Sequenti nimis videtur affine.

518. E. congregatum Nyl. Ang. p. 14. — Supra saxa in Benguella: Welwitsch. — Endem.

519. E. Guepinii (Moug. in Fr. l. c.) Nyl. in Flora 1864 p. 487. — Supra saxa prope Keren: Beccari. — Amer. sept., Brasil., Paraguay.

520. Peltula radicata Nyl. Alg. p. 322. — Supra terram arenæ subtilis prope Biskra: Balansa. — Endem.

521. Leproloma lanuginosum (Ach. Prodr. p. 120) Nyl. in Flora 1883 p. 107. — Supra saxa umbrosa tenui terra oblecta prope Wadi Kischen in insula Socotra 650 m: Schweinfurth. — Europ., Nov.-Zel., Amer. sept., Brasil.

522. Lecanora paleacea (Fr. l. c. p. 97) Nyl. Scand. p. 122. — In Africa supra muscos teste Mass. Cap. p. 38. — Dan., Pommeran., inss. Maclov.

523. L. asperella Hmp. in Nyl. En. p. 113. — Supra muscos in Promontorio Bonæ Spei. — Tasmania.

524. L. sphinctrina (Mnt. Syll. p. 330) Nyl. Campb. p. 3. — Supra cortices arborum in Promontorio Bonæ Spei et in insulis Borbonia et Sancti Mauritii. — Manila, Austral., Nov.-Zel., Polynes., Fret. Magell.

525. L. subhispidula (Nyl. Exot. p. 256) unacum var. **isidiiformi** (Nyl. l. c.). — Super corticem arborum in sylvis insulæ Borboniæ: Lepervanche. — Endem.

(Lecanora)

526. *L. flavicans* (Müll. l. c. 1884 p. 616). — Corticicola in Madagascaria centrali: Hildebrandt. — Endem.

527. *L. crassa* (Huds. l. c. p. 130) Ach. L. U. p. 413. — Supra terram, saxa et muscos in regionibus calcariis Aegypti, Algeriæ, Saharæ et insularum Madera (Mand. Mad. 13) et Canariarum. — Europ., Syria, Austral. — Var. ***periculosa*** (Del. Hb.) Schaer. En. p. 58. — Calcicola prope Constantine: Flagey. — Europa. — Var. ***Dufourii*** (Fr. l. c. p. 99, Nyl. Scand. p. 130) Hepp Fl. E. 617. — In Algeria. — Europ. — F. ***liparia*** (Ach. Meth. p. 182). — Basalticola in insula Madera: Hartung. — Europ. — Var. ***nitidiuscula*** (Nyl. Syn. II p. 59). — In insulis Canariis. — Endem.

528. *L. gypsacea* (Sm. in Trans. Linn. Soc. I p. 81) Hepp l. c. 619). — Supra terram et saxa in Algeria et in territorio Somali: Hildebrandt. — Europa.

529. *L. lentigera* (Web. Spic. Fl. Goett. p. 192) Ach. L. U. p. 423. — Supra terram in Algeria, Marocco: Hooker et Madera: Mandon Mad. 51. — Europ., Transcaucas., Nebraska. — F. ***deserti*** Nyl. Aeg. p. 3. — In Aegypto. — Endem. — „Pabulum gazellis; Bir Hamam usque Gasser-eschdachi, deserta vestiens, copia sua nivem recenter lapsam simulans“ (Ehrenberg).

530. *L. melanophthalma* (Ram. in DC. Fl. Fr. II p. 376, Nyl. Scand. p. 131). — Saxicola in montibus Dedschen et Silke Abyssiniæ 4050—4080 m: Schimper, in monte Maroccano Tezi: Hooker et in insula Teneriffa. — Alp. europ., Asia occid., Kerguel., Amer. sept., Grœnland.

531. *L. nidulans*. Thallus flavido-cinereus squamulosus, squamulis pedatoincisis, lobulis dense contiguis, tandem granoso-squamulosus passim isidiosus, K=. Apothecia turbinate stipitata, primum pyriformia subclausa dein cyathiformia,

disco nigrofusco concavo, margine crasso lævi vel lacunosulo integro, rarius parce crenulato, diam. 1-3 mm. Hymenium superne fuscum in hypothecio incolore, paraphysibus non discretis. Sporæ in thecis amplis octonæ simplices subglobosæ vel sæpius late ellipticæ, longit. 0,008-12 mm, crassit. 0,006-7 mm. Gelatina hymenea iodo intense cœrulea. Spermogonia nigra a thallo cincta; spermatia bacillaria curvula longit. 0,012-15, crassit. vix 0,001 mm. — In monte Mastenberg ad Saldanha-Bay Promontorii Bonæ Spei: Zeyher. — Endem.

532. L. peltata (DC. l. c. p. 377) Fr. fil. l. c. p. 221 var. **lævior** (Nyl. Syn. II p. 63). — Saxicola in Abyssiniæ montibus Silke 4050—4080 m et Dedschen 4260 m: Schimper. — Europ.

533. L. cartilaginea Ach. (in Vet. Ak. Hand. 1795 t. 5 f. 4) L. U. p. 415. — In monte Maroccano Tezi 3000 m: Hooker. — Europ.

534. L. saxicola (Pollich Pl. Pal. p. 225) Ach. L. U. p. 431. — Super saxa in Algeria et Teneriffa; supra corticem *Oreodaphnes* in insula Madera: Fritze. — Europ., Turcoman., China, Amer. sept., Argentin. — Var. **diffracta** (Ach. l. c. p. 432) Branth-Rostr. Dan. p. 70. — Supra lapides siliiceos prope Constantine: Flagey. — Europ., Calif. — Var. **versicolor** (Pers. in Ust. N. Ann. Bot. I p. 24) Fr. fil. l. c. p. 226. Syn. *Parm. incisa* Fr. S. O. V. p. 284. — Supra saxa calcaria prope Constantine: Flagey et in Guinea. — Europ., Amer. sept., Argentin.

535. L. deminuta Müll. l. c. 1881 p. 204. — Saxicola prope Lydenburg in Transvaalia: Wilms. — Endem.

536. L. Reuteri Schaer. l. c. p. 59. — Supra saxa calcaria prope Constantine: Flagey. — Helvet., Bosnia, Pyren.

(Lecanora)

537. *L. pruinifera* Nyl. Lux. p. 368. — Supra saxa calcaria prope Constantine: Flagey. — Europ.

538. *L. bullata* (Müll. Diagn. Soc. p. 3). — Graniticola in insula Socotra: Balfour, Schweinfurth. — Endem.

539. *L. scoriophila* (Mass. Cap. p. 55). — Supra saxa vulcania in insula Ascensionis: Wawra. — Endem.

540. *L. gelida* (L. Mant. II p. 133) Ach. l. c. p. 428. — Saxicola in insula Madera: Castello da Paiva. — Europ., Java, Kerguel., Nov.-Zel., Amer. sept., Boliv., Fuegia.

541. *L. fulgens* (Sw. in Nov. Act. Ups. IV p. 246) Ach. l. c. p. 437. — Supra terram in regionibus calcariis prope Bir Hamam: Ehrenberg et in deserto Wadi Aschar Aegypti: Schweinfurth, in Algeria: Durieu, Flagey, in Sahara prope Biskra: Norrlin, in territorio Somali: Hildebrandt. — Europ., Turcoman., Amer. sept.

542. **L. saxosa*. Sporæ rapiformes distincte 1-septatæ, septo sæpe obliquo, cellula superiore vulgo brevior crassiore, inferiore conice contracta. Thallus exacte medius inter thallum *L. fulgentis* et *L. bracteata*, citrinus, K+ purpurascens; apothecia crocea. — Saxis calcariis arcte adnata ad Mansurah prope Constantine: Flagey. — Endem.

543. *L. scorigena* (Mnt. Can. p. 100) Nyl. Ang. p. 5. — Supra scorias vulcanias ad Punta de Melanara in Canaria: Webb, Husnot, supra saxa calcaria prope Cabo negro et in regione Mossamedes Angolæ: Welwitsch. — Endem.

544. *L. elegantissima* Nyl. l. c. p. 5. — Supra lapides quartzosos in Mossamedes Angolæ: Welwitsch et prope Obib ad Oranje River: A. Schenck. — Endem.

545. *L. eudoxa* (Müll. in Flora 1888 p. 44). — Supra saxa quartzosa in summo monte Nautilusspitze ad Angra Pequena: H. Schinz. — Endem.

546. L. elegans Ach. L. U. p. 435. — Saxicola in Abyssinia: Schimper; super scorias vulcanias in monte Kili-
mandscharo 6100 m: Meyer. — Europ., Asia, Kerguel., Amer.
utraque. — **F. tenuis** (Whlbn. Lapp. p. 417) Ach. Syn. p. 183.
— Supra saxa in insulis Madera: Castello da Paiva, Hartung
et Lanzarote: Hartung. — Europ., Asia, Nov.-Zel., Amer.

547. L. lobulata Smmrf. Suppl. p. 87, Nyl. in Brenn.
Hogl p. 54. — Saxicola in Africa continente et in insulis
Sancti Thomæ: Newton et Rodriguesii: Balfour. — Europ.,
Fret. Bering.

548. L. pertenuescens Nyl. in Bol. Soc. Brot. V, 1888
p. 223. — Saxicola in insula Principis: Newton. — Endem.

549. L. callopiza Nyl. in Flora 1883 p. 98. — Supra
saxa calcaria prope Constantine: Flagey et in insula Tene-
riffa 2000 m: v. Fritsch. — Alp. Rætic. et Delphinat., Pyren.

550. L. subelegans Nyl. in Cromb. Chall. p. 218. —
Saxicola in insula Teneriffa. — Endem.

551. L. leucoxantha (Müll. l. c. p. 139). — In ramis
speciei cujusdam *Sarcocauli* in Angra Pequena: H. Schinz. —
Endem.

552. L. Ehrenbergii (Müll. Egypt. p. 9). — Lapidic-
cola inter Gasser-eschtachi et Sirah Aegypti mediterraneæ:
Ehrenberg; in desertis ad orientem a Cahira vergentibus
300 m: Schweinfurth. — Endem.

553. L. murorum (Hffm. En. p. 63) Ach. L. U. p. 433.
— In Africa boreali, Aegypto, Promontorio Bonæ Spei et
in insula Sancti Mauritii. — Cosmop. — Var. **pusilla** (Mass.
in Flora 1852 p. 567) Nyl. ib. 1863 p. 106. — Saxicola prope
Saldanhabay in Africa australi: Breutel. — Europa. — Var.
decipiens (Arn. ib. 1867 p. 562). — Supra lapides et saxa
prope Constantine et Philippeville: Flagey. — Europ. —

(Lecanora)

Var. **obliterata** (Pers. l. c. V p. 15) Nyl. Nov.-Gran. Add. p. 540. — Calcicola prope Constantine: Flagey; basalticola et inde in stercora propagata in insula Ascensionis: Naumann. — Cosmop.

554. **L. tegularis** (Ehrh. Pl. cr. 304) Nyl. in Flora 1883 p. 106. — Supra lapides siliceos prope Constantine: Flagey. — Europ.

555. **L. lepidoplaca** Nyl. in Cromb. Chall. p. 212. — Saxicola in Promontorio viridi. — Endem.

556. **L. subfulgescens** Nyl. in Flora 1876 p. 510. — Graniticola in Transvaalia: Wilms. — Cuba.

557. **L. Beccarii** (Bagl. Abyss. p. 244). Sporæ longit. 0,010-14, crassit. 0,007-8 mm, hymenium inspersum. — Supra corticem arborum prope Keren in Abyssinia: Beccari. — Endem.

558. **L. granulosa** (Müll. Lich. Gen. p. 40) Nyl. in Stzb. L. H. No. 382. — Supra saxa calcaria prope Constantine: Flagey; saxicola in Monte Tabulari: MacOwan. — Europ., Fret. Bering.

559. **L. erythrina** (Müll. Egypt. p. 10). — Calcicola in Wadi Hassane et in deserto Galala: Schweinfurth. — Endem. — Varr. **pulvinata** et **cryptocarpa** (Müll. l. c. p. 10, 11) unacum typo in deserto Galala. — Endem.

560. **L. callopisma** Ach. L. U. p. 437. — Saxicola prope Constantine: Flagey et variis locis in Aegypto. — Palæst., China, Argent.

561. **L. sympagea** (Ach. Prodr. p. 105) Nyl. in Flora 1873 p. 197. — Saxicola prope Constantine: Flagey. — Europ., Brasil. — Formæ **centroleuca** (Mass. in Flora 1852 p. 567) et **exalbata** (Müll. l. c. p. 10) variis locis in Aegypto (Zw. exs. 934). — Europ.

562. L. flavorubens Nyl. (Ang. p. 5 nota) in Cromb. Chall. p. 212. — Super saxa maritima Africae austro-occidentalis: Welwitsch et in Promontorio viridi. — Endem.

563. L. deplanata (Müll. Diagn. Soc. p. 4). — Callicola in insula Socotra: Balfour, Schweinfurth. — Endem.

564. L. Balfourii Müll. l. c. — Callicola in insula Socotra: Balfour, Schweinfurth. — Endem.

565. L. granulifera (Müll. l. c.) unacum var. **subvitellina** (Müll. l. c.). — Supra saxa quartzosa prope Wadi Kischen in radicibus septentrionalibus montium Haghier in insula Socotra: Schweinfurth. — Endem.

566. L. ochraceofulva (Müll. in Flora 1885 p. 504). Syn. *Placodium callopisma* Krmpfh. Afr. p. 143. — Supra saxa calcaria montium Serrab in terra Somali: Hildebrandt. — Endem.

567. L. teicholyta Ach. L. U. p. 425. — Supra saxa et muros in Algeria: Durieu, Flagey, in deserto Wadi Cherese: Schweinfurth. — Europ.

568. L. Lallavei (Clem. Ens. p. 297) Nyl. Prodr. p. 77. — Supra saxa calcaria aprica in Algeria. — Europa.

569. L. carphinea (Fr. L. E. p. 110) Schaer. l. c. p. 67. — In lapidulis cacuminis montis Ben Avuda in Marocco: Brun et supra rupes in Promontorio viridi: Bolle. — Europ. meridion.

570. L. citrina Ach. Syn. p. 176. — Supra lapides prope Constantine: Flagey, in ruderibus prope Alexandriam: Ehrenberg et ad Marabut deserti minoris Katiyeh in Aegypto: Barbey, sterilis in insula Socotra: Balfour. — Palæst., China, Tonkin, Amer. sept. et arct. — Var. **microcarpa** (Müll. Egypt. Suppl. p. 6). — Supra saxa dura subporosa Aegypti submediterraneæ: Barbey. — Endem.

(Lecanora)

571. L. cinnabarina Ach. L. U. p. 402. — Saxicola in Abyssinia, in territorio Sansibar, Port Natal, Angola, in Promontorio Bonæ Spei et in insula Rodriguesii. — Latissime distributa in terris calidis præsertim in Amer. — **Var. hæmatodes** (Mass. Cap. p. 86). Syn. *L. cinnab. var perminiata* Nyl. in Cromb. Cap. p. 171. — Supra saxa Montis Tabularis: Balfour, MacOwan et prope Simonsbay: Jelinek. — Endem. — **Var. pallidior** (Müll. in Flora 1881 p. 514). — Saxicola ad Pungo Andongo in Angola: Soyaux et supra saxa gneissica collium Gumango in Africa centrali: Schweinfurth. — Endem.

572. L. cinnabariza Nyl. l. c. p. 172. — Saxicola in Monte Tabulari: Eaton. — Endem.

573. L. interfulgens Nyl. in Flora 1878 p. 340. — Supra lapides arenarios prope Biskra in Sahara: Balansa, Norrlin. — Endem.

574. L. aurantiaca (Lightf. Scot. 2 p. 810) Nyl. Prodr. p. 76. — Corticicola in Abyssinia, Algeria, Sahara, in insulis Canariis, Madagascar, Rodriguesii: Balfour et Socotra: Schweinfurth; saxicola prope Constantine: Flagey et in insula Madera: Fritze. — Europ. calidior, Asia, Nov-Zel., Polynes., Amer. utraque. — **F. fulva** (Schwein. in Halse New York) Nyl. Nat. p. 6. — Truncicola? ad Port Natal: Armstrong-Mackenzie. — New York. — **F. dealbata** (Fr. S. V. Sc. p. 113). — Supra *Cactos* ad Alkazar-el-Kebir in Marocco: Brun. — Scandinav. — **Var. isidiosella** Nyl. in Cromb. Rodr. p. 437. — Corticicola in insulis Socotra: Schweinfurth et Rodriguesii: Balfour. — Endem. — **Var. sorendiifera** (Bagl. l. c. p. 247). — Lignicola prope Keren: Beccari. — Endem. — **Var. placidium** (Mass. Symm. p. 32). — Super saxa prope Lydenburg in Transvaalia: Wilms. — Europ. — **Var. Velana** (Mass. in Flora 1852 p. 570). — Calcicola prope Constantine:

Flagey. — Europ. — Var. **steropea** Krb. Pg. p. 65 non Ach. — Sterilis quartzicola supra Wadi Kischen 650 m in insula Socotra: Schweinfurth. — Europ.

575. *L. euelpis. Thallus effusus æqualis ochraceoaurantiacus. Apothecia aurantiacorufa nonnihil adpressa minora, diam. 0,3-4 mm, biatorina plana vel convexa; sporæ longit. 0,010-13, crassit. 0,004-7 mm. Gelatina hymenea iodo cœrulescens. Sporis minoribus a typo recedit. *Lecanoræ aurantiellæ* Nyl. sporæ ejusdem magnitudinis sed apothecia ei innata. — Saxicola ad Promontorium Bonæ Spei: MacOwan. — Endem.

576. *L. orichalcea. Thallus vel pallidus vel saturatus ochraceoluteus vel ochraceoaurantiacus tenuis parum continuus, interdum plane deficiens. Apothecia sordide aurantiaca vel ochraceocinnamomea concava vel plana, margine concolore biatorino, disco nitidiusculo, diam. 0,15-30 mm. Epithecium rufofuscum nonnihil granulis inspersum; sporæ octonæ placodinæ, pariete crasso plerumque poro instructo, late ellipsoideæ longit. 0,008-11, crassit. 0,004-7 mm. Gelatina hymenea iodo intense cœrulea. Thallus et apothecia K+ (chryso-ph.). — Super saxa granitica et basaltica in monte Lubombo in Transvaalia: Wilms. — Endem.

577. *L. erythrella Ach. l. c. p. 402. — Saxicola prope Constantine: Flagey, prope Keren in Abyssinia: Beccari, variis locis in Aegypto et in Monte Tabulari. — Europ., China, Japon., Nov.-Zel., Amer. austr.

578. L. subunicolor Nyl. in Cromb. Cap. p. 172. — Supra saxa in Monte Tabulari: Eaton. — Kerguel.

579. L. aurantiella Nyl. in Cromb. Rodr. p. 437. — Saxicola in insula Rodriguesii: Balfour. — Endem.

580. L. ochracea (Schaer. in Naturw. Anzeig. 1818 p. 11) Nyl. in Lamy Cat. p. 59. — Calcicola in Algeria. — Europ.

(Lecanora)

— **Var. parvula.** Apotheciis minutissimis thallo concoloribus, sporis longit. 0,008-10, crassit. 0,005-6 mm. — Unacum *Lecidea nanospora* et *Angolensi* supra saxa basaltica prope Lydenburg in Transvaalia: Wilms. — Endem.

581. L. ferruginea (Huds. l. c. p. 526) Nyl. Prodr. p. 76. — Corticicola in Algeria et in Sahara, ad Bogos in Abyssinia et in insula Borbonia. Saxicola prope Constantine: Flagey, in Madera, ad Promontorium Bonæ Spei et prope Lydenburg in Transvaalia: Wilms. — Europ., Asia, Austral., Amer. sept. — **F. erysibe** (Mass. Symm. p. 30). — Corticicola prope Lydenburg in Transvaalia: Wilms. — Europ.

582. *L. Odoardii (Bagl. l. c. p. 247). Sporis longit. 0,014-18, crassit. 0,008 mm. — Supra cortices et ligna prope Keren in Abyssinia: Beccari; corticicola prope Lydenburg in Transvaalia: Wilms. — Endem. — **F. viridascens** Bagl. l. c. simul cum typo in Abyssinia. — Endem.

583. *L. ferruginella Nyl. Aeg. p. 4. — Supra lapides oolithicos prope Alexandriam: Ehrenberg. — Endem.

584. *L. præmicans Nyl. in Cromb. Cap. p. 172. Syn. *Placodium ferrugineum* (Huds.) **miniaceum* Tuck. Obs. IV p. 171. — Corticicola in Monte Tabulari: Eaton; ibidem necnon in monte Kampsberg: MacOwan. — Endem.

585. L. amphidoxa. Thallus cinereus linea hypothalina nigra sublimitatus, granulosofurfuraceus. Apothecia sordide cinnamomea vel nigrofusca vel nigra, sessilia, sæpe conferta et angulosa, zeorina, margine thallode concolore integro tandem flexuoso undulato vel nonnihil crispo, intus alba diam. ad 0,9 mm. Paraphyses discretæ in hypothecio incolore; epithecium fuscum. Sporæ ellipticæ placodinæ pariete et septo crassis cum tubulo axeos oculisque minutis, longit. 0,012-17, crassit. 0,006-8 mm. Gelatina hýmenea iodo

intense cœrulea. *L. ferrugineæ* affinis, sed margine zeorino et disco tandem nigricante distincta. — Super corticem arborum pomiferarum in horto prope Lydenburg in Transvaalia: Wilms. — Endem.

586. *L. massula*. Thallus albocinereus effusus granulatus vel nonnihil rimulosus, K—. Apothecia rubella vel spadicea minuta biatorina immarginata convexa, diam. ad 0,6 mm, K+ (chrysoph.). Lamina epithecio luteorufescente insperso, hypothecio incolore, paraphysibus discretis. Sporæ octonæ oblongæ incolores placodinæ, tubo axeos loculos jungente, longit. 0,013-17, crassit. 0,005-7 mm. Gelatina hymenea iodo intense cœrulea. — Supra arborum pomiferarum corticem prope Lydenburg in Transvaalia: Wilms. — Endem.

587. *L. albidofusca* Nyl. in Bol. Soc. Brot. V, 1888 p. 222. — Saxicola in insula Principis: Newton, Quintas. — Endem.

588. *L. albidopallens* Nyl. Ins. Guin. p. 14. — Saxicola in insulis Principis: Quintas et Sancti Thomæ: Newton. — Endem.

589. *L. Coccinella*. Thallus pallide cinereoochraceus squamulosoareolatus. Apothecia coccineoaurantiaca passim nitida plana demum convexa albomarginata, margine tenui integro tandem evanescente, diam. ad 1 mm. Epithecium aurantiacum inspersum. Sporæ oblongoellipsoideæ placodinæ pachydermæ longit. 0,013-16, crassit. 0,005-7 mm. Gelatina hymenea iodo cœrulea. Sequenti valde affinis. — Rara inter alios lichenes supra saxa granitica dilabentia in Monte Leonis prope Kapstadt: MacOwan. — Endem.

590. *L. subpunicea*. Syn. *Blastenia punicea* Müll. l. c. 1888 p. 45. — Supra saxa quartzosa summi montis Nautiluspitze ad Angra Pequena: H. Schinz. — Endem.

(Lecanora)

591. L. Vascesia (Mass. Cap. p. 72). A simili *L. ferruginea* sporis (longit. 0,013-14, crassit. 0,008-10 mm) crassioribus earumque oculis remotioribus satis distat. — Supra saxa vulcania in Promontorio Bonæ Spei: Wawra. — Endem.

592. L. lamprocheila (DC. l. c. p. 557) Nyl. in Lamy Cat. p. 61. — Supra saxa arenacea prope Constantine: Flagey et in summo Monte Tabulari: MacOwan. — Europ.

593. L. exasperata (Bagl. l. c. p. 248). Epithecium luteorubricosum inspersum. Sporæ longit. 0,010-12, crassit. 0,006 mm; earum loculi poro conjuncti. — Lignicola prope Keren in Abyssinia: Beccari. — Endem.

594. L. poliotera Nyl. in Flora 1869 p. 70. — Supra lapides in Pungo Andongo Benguellæ: Soyaux. Saxicola in ascensu septentrionali montis Bagne insulæ Socotræ 500 m: Schweinfurth. — Bengal.

595. L. albidocœrulescens (Müll. Diagn. Soc. p. 6). — Supra saxa quartzosa in insula Socotra: Balfour, Schweinfurth. — Endem.

596. L. variata. Syn. *Blast. variabilis* Müll. l. c. p. 7. — Quartzicola supra Wadi Kischen in insula Socotra 600—650 m: Balfour, Schweinfurth. — Endem.

597. L. maurula (Müll. in Flora 1885 p. 510). — Ramulicola prope Habab in Abyssinia necnon ad Tschamtei in Duruma: Hildebrandt. — Endem.

598. L. obscurella (Lahm in Krb. Pg. p. 130) Nyl. l. c. 1867 p. 326. — Corticicola prope Keren in Abyssinia: Beccari. — Europ.

599. L. fuscellina (Müll. l. c. 1884 p. 617). — Ramulicola in Madagascaria centrali: Hildebrandt. — Amer. australiss.

600. L. carneofusca Nyl. in Cromb. Rodr. p. 438. — Saxicola in insula Rodriguesii: Balfour. — Endem.

601. *L. pyracea* (Ach. Meth. p. 176) Nyl. Scand. p. 145. — Supra corticem arborum prope Constantine: Flagey; supra ramulos *Lycii* prope El Arish in Aegypto mediterranea: Barbey; ramulicola in insula Socotra: Schweinfurth et corticicola in insula Madera. — Europ., Nov.-Zel., Amer. utraque. — Var. **lactea** (Mass. Sched. p. 133) Stzb. L. H. No. 417. — Calcicola in Aegypto media et mediterranea: Ascherson, Barbey. — Europ. — F. **athallina** (Müll. l. c. 1872 p. 469). — Calcicola in deserto Wadi Rished et in Aegypto mediterranea: Schweinfurth, Barbey. — Palæst. — Var. **pyrithroma** (Ach. L. U. p. 206) Nyl. l. c. — Supra saxa calcaria frequens ad Pyramides, prope Alexandriam et Cahiram in Aegypto, prope Constantine in Algeria: Flagey et in sterilissima regione Mossamedes Angolæ. — Europ. — Var. **picta** (Tayl. in Mack. Fl. Hib. p. 130) Nyl. in Lamy Cat. p. 62. — Saxicola in Monte Tabulari: Eaton. — Europ.

602. *L. luteoalba* (Turn. in Trans. Linn. Soc. VII p. 92) Nyl. Scand. p. 145. — Saxicola in insula Sancti Vincentii: Breutel. — Europ. mitior.

603. *L. fulvastra* Krmplh. Warm. p. 380. — In insula Madagascar: Hildebrandt. — Brasil.

604. *L. callopismoides* (Müll. l. c. 1885 p. 505). — Ramulicola in Madagascaria centrali: Hildebrandt. — Endem.

605. *L. subcerata*. Syn. *L. subcerina* Nyl. in Flora 1876 p. 282 non 1869 p. 119. — Supra cortices arborum ad Zowyet el Ghazal et alibi secus canalem in Delta Nyli: LARBALÉSTIER. — Turcoman.

606. *L. gilvella* Nyl. l. c. 1876 p. 282. — Supra lapides siliceos ad basin Pyramidis Chephren: LARBALÉSTIER, in Wadi Cherese: Schweinfurth. — Endem. — Var. **albida** (Müll. Egypt. p. 12). — In Wadi Cherese et in summo monte Mokattam prope Cahiram: Schweinfurth. — Endem.

(Lecanora)

607. L. holocarpa (Ehrh. l. c. 284) Nyl. Scand. p. 145. — Supra ligna prope Keren in Abyssinia: Beccari et ad Marabut in deserto Katiyeh: Barbey. — Europ.

608. L. aurea Schaer. En. p. 64. — Ad Beni Hosmar in regno Maroccano: Hooker. — Europ.

609. L. pyropœcila Nyl. in Cromb. Cap. p. 172. — Saxicola in Monte Tabulari: Eaton. — Endem.

610. L. phlogina (Ach. Meth. p. 180) Nyl. Prodr. p. 78 et in Lamy Cat. p. 63, non Nyl. L. P. 121. — Corticicola in Algeria et prope Lydenburg in Transvaalia: Wilms. — Europa.

611. L. glaucofuscula Nyl. in Cromb. Rodr. p. 437 cum f. **biatoridea** id. l. c. — Saxicola in insula Rodriguesii: Balfour. — Endem.

612. L. cerina (Ehrh. l. c. 216) Ach. L. U. p. 390. — Supra cortices et ligna in Algeria, supra corticem *Cedri* prope Batna in Sahara: Norrlin. — Europ., [Nov.-Caled., Amer. utraque, Fret. Bering. — Var. **obscurata** Nyl. in Mus. Fenn., id. Scand. p. 144. — Supra ramulos *Lycii arabici* in Aegypto: Schweinfurth. — Europ.

613. *L. cerinella Nyl. Lux. p. 370. — Supra corticem *Cedri* prope Batna in Sahara: Norrlin et ramulicola prope Habab in Abyssinia: Hildebrandt. — Paris., Pyren.

614. L. Benguellensis Nyl. Ang. p. 6. — Supra saxa schistosa in Benguella: Welwitsch. — Endem.

615. L. hæmatites Chaub. Fl. Ag. p. 492. — Supra corticem *Cedri* prope Batna in Sahara: Norrlin. — Europ., Turcoman., Texas.

616. L. rubelliana Ach. l. c. p. 376. — Supra saxa in monte Deban Abyssiniæ: Beccari et prope Constantine in Algeria: Flagey. — Europ.

617. L. variabilis (Pers. l. c. I p. 26) Ach. l. c. p. 369 var. **candida**. Hypothallus deficiens, thallus et apotheciorum margo albus; lichen extus *Lecanoræ calcareæ* subsimilis. — Calcicola ad Azeba prope Constantine: Flagey. — Endem. — Var. **acrustacea** Arn. in Flora 1858 p. 319. — Calcicola prope Constantine: Flagey. — Europ.

618. L. albopruinosa (Arn. l. c. 1859 p. 152) Nyl. in Lojka Hb. — Calcicola prope Constantine in Algeria: Flagey. — Europa.

619. L. circumalbata (Delile Egypt. p. 157). — Supra calcem numulithicam in Vallée d'Egarement: Delile. — Endem.

620. L. interveniens (Müll. Egypt. Suppl. p. 5). — Calcicola in Aegypto submediterranea: Barbey. — Endem.

621. L. Aegyptiaca (Hepp MS., Müll. Egypt. p. 12). — Supra lapides calcareos in desertis Wadi Cherese, Wadi Na-umieh, Wadi Nehieh, Wadi Hassane et in summo Dschebel Cheschen in Wadi Gendel inter Cairo et Sues: Schweinfurth, in Dschebel Mokattam et in Aegypto submediterranea: Barbey. — Palæst. — Var. **lecideina** (Müll. l. c. p. 13). — In summo Dschebel Cheschen: Schweinfurth. — Endem. — Var. **depauperata** (Müll. l. c.). — In deserto Bir Hamam: Ehrenberg. — Endem.

622. L. minuscula (Müll. Egypt. Suppl. p. 6). — Calcicola in Aegypto submediterranea: Barbey. — Endem.

623. L. cretacea (Müll. Diagn. Soc. p. 6 non id. in Flora 1867 p. 434). — Calcicola in insula Socotra: Balfour, Schweinfurth. — Endem.

624. L. melanocarpa (Müll. Egypt. p. 17). — Frequentissima in desertis calcariis ægyptiacis Wadi Cherese, Wadi Na-umieh, Wadi Nehieh, Wadi Rished, necnon in

(Lecanora)

Dschebel Cheschen in Wadi Gendel: Schweinfurth et in monte Mokattam: Kotschy. — Var. **bicolor** Müll. l. c. — In Wadi Na-umieh et in summo Dschebel Cheschen: Schweinfurth. — Var. **versicolor** Müll. l. c. — In Wadi Na-umieh: id. — Var. **leucoloma** Müll. l. c. — In Wadi Cherese: id. — Typus ejusque varr. endem.

625. **L. candicans** (Dick. Crypt. 3 p. 15) Schaer. Spic. p. 119. — Saxicola prope Constantine: Flagey. — Europ.

626. **L. liparina** Nyl. in Flora 1876 p. 305. — Super saxa calcaria prope Constantine: Flagey. — Gallia.

627. **L. erythroleuca** Nyl. Nov.-Granat. Ed. II p. 30 var. **subcerina** Nyl. in Flora 1869 p. 119. Syn. *Callop. australe* Müll. in Flora 1881 p. 100 non *Physcia austr.* Arn. ib. 1875 p. 154. — Supra corticem arborum prope Durban in Africa australi: Wilms. — Brasil., Paraguay. — F. **aurantiaca** (Müll. l. c.). — Corticicola in Madagascaria centrali: Hildebrandt. — Brasil.

628. **L. fulvoglauca** (Flagey Hb.). Thallus cervinus minute squamosoareolatus. Apothecia lecanorina plana vel subconvexa, disco fusconigro cæsiopruinoso, margine integro, latit. 0,25-50 mm. Epithecium fuscum, paraphyses crassæ articulatæ superne clavatæ et nigrofuscæ in hypothecio incolore. Sporæ ellipticæ medio constrictæ 1-septatæ, septo tenuiore, longit. 0,009-11, crassit. 0,005-6 mm. Gelatina hymenea iodo cœrulescens dein vinose fulvescens. Prope *Lecanoram submergendam* Nyl. in Flora 1877 p. 221 collocanda. — Supra saxa calcaria prope Constantine: Flagey. — Endem.

629. **L. apostatica** Nyl. in Cromb. Rodr. p. 437. — Saxicola in insula Rodriguesii: Balfour. — Endem.

630. ***L. obliquans** Nyl. l. c. p. 438. — Saxicola in insula Rodriguesii: Balfour. — Endem.

631. *L. confluens* (Müll. l. c. 1888 p. 46). — Supra saxa quartzosa in summo monte Nautilusspitze territorii Angra Pequena: H. Schinz. — Endem.

632. *L. imponens*. Thallus cinereus effusus granulatus. Apothecia crebra nigra lecideina, primum plana margine proprio nigro tenui, tandem convexa immarginata, intus alba sub linea nigra, diam. 0,6-8 mm. Epithecium cœrulescens K+ purpurascens, paraphyses discretæ crassæ superne clavatæ in hypothecio incolore. Sporæ placodinæ late ellipticæ cum tubulo axeos, longit. 0,010-12, crassit. 0,006-7 mm. Gelatina hymenea iodo cœrulescens. — Saxicolâ in republica Oranje: Rehmman. — Endem.

633. *L. seductrix*. Thallus ochraceofuscus effusus globosogranulatus, ætate rarefactus. Apothecia nigra, primum plana margine concolore dein convexa immarginata, intus nigra, diam. 0,2-5 mm. Hymenium luteofuscescens in hypothecio rufescente, paraphysibus subdiscretis crassioribus articulatis nonnihil ramosis, superne luteofuscescentibus clavatis. Sporæ octonæ placodinæ, longit. 0,012-15, crassit. 0,006-7 mm, dissepimento crasso tubulato. Gelatina hymenea iodo cœrulescens. Spermata elliptica brevissima in sterigmatibus articulatis. Epithecium K—; thallus K+ (lutescens). — Supra saxa arenacea in summo Monte Leonis: MacOwan. — Endem.

634. *L. suspicax*. Thallus obsoletus; apothecia nigra lecideina immarginata aspera, latit. 0,4-6 mm, intus cinerea, epithecio viridiolivaceo, hypothecio incolore, paraphysibus liberis superne leviter clavatis et viridulis, thecis octosporis. Sporæ longit. 0,010-14, crassit. 0,004-7 mm, cum tubulo axeos. Gelatina hymenea iodo intense cœrulescens. *Lecanoræ suspiciosæ* Nyl. proxima, at notis allatis sat diversa. — Lignicola prope Keren in Abyssinia septentrionali: Beccari. — Endem.

(Lecanora)

635. L. medians Nyl. Lux. p. 367. — Supra saxa calcaria abundans in provincia Algeriensi Constantine: Flagey. — Europ.

636. L. vitellina (Ehrh. Pl. cr. 155) Ach. l. c. p. 403. — In Abyssinia, supra saxa calcaria prope cataractam Terrao ad Huilla in Benguella 1800 m: Welwitsch et supra scorias vulcanias recentiores insulæ Lanzarote: Hartung. — Europ., Nov.-Zel., Amer. sept., Fret. Bering., Boliv., Patagon.

637. L. laciniosa (Duf. in Fr. L. E. p. 73) Nyl. in Flora 1881 p. 444. — Corticicola in Abyssinia: Beccari, Hildebrandt, in Promontorio Bonæ Spei: MacOwan, prope Lydenburg: Wilms, in insula Madagascar: Hildebrandt. — Europ., Amer. utraque.

638. *L. fibrosa (Fr. S. O. V. p. 284). — Corticicola in Promontorio Bonæ Spei: MacOwan et in monte Spitzkop prope Lydenburg in Transvaalia: Wilms. — Amer. sept., Argentin.

639. L. reflexa Nyl. in Bull. Soc. Bot. France 1866 p. 141, Arn. exs. 1433. — Super corticem *Ailanthi glandulosæ* in ambulacris urbis Constantine: Flagey. — Europ.

640. L. epixantha (Ach. l. c. p. 208) Nyl. Lapp. p. 127. — Prope Pyramidem Chephren ad Abusir, in desertis Galala, Wadi Dugla et in Aegypto submediterranea: Ehrenberg, Larbalestier, Barbey, Schweinfurth; super corticem *Cedri* prope Batna in Sahara: Norrlin; corticicola et saxicola prope Constantine in Algeria: Flagey. — Europ., Palæst., Turcoman., Amer. sept., Fuegia.

641. L. elæophæa Nyl. in Cromb. Cap. p. 173. — Saxicola in Monte Tabulari: Eaton. — Endem.

642. L. glaucolivescens Nyl. l. c. — Saxicola in Monte Tabulari: Eaton. — Endem.

(Lecanora)

643. L. Ascensionis Müll. Gaz. II p. 136 sub *Dimelaena*, non Ach. L. U. p. 422. — Supra saxa basaltica in insula Ascensionis: Naumann. — Endem.

644. L. Mougeotioides Nyl. in Flora 1872 p. 364. — Saxicola in Risca de Ucanca insulæ Teneriffa 2550 m: v. Fritsch. — Europ. med. et merid.

645. L. microps. Syn. *Rinodina microphthalma* Mass. Cap. p. 61 non *Lecanora microphthalma* Hook.-Tayl. in Hook. Journ. Bot. 1844 p. 642. — Supra saxa basaltica socia *Lecanoræ Vascesiae* et *Lecideæ procellarum* in Monte Tabulari ad Promontorium Bonæ Spei: Wawra. — Endem. — Vergit ad *Lecanoram Mougeotioidem* Nyl.; ambabus thallus K+lutescit. Sporæ *L. micropis* longit. 0,010-13, crassit. 0,006-8 mm.

646. L. microlepidea (Müll. in Flora 1888 p. 206). — Supra saxa (non calcaria) prope Lydenburg in Transvaalia: Wilms. — Endem.

647. L. sophodes Ach. (Prodr. p. 67) L. U. p. 356. — Supra cortices et ligna in Algeria, prope Lydenburg in Transvaalia: Wilms et in insulis Madera et Teneriffa: Despréaux; calcicola in Angola: Welwitsch. — Europ., Nov.-Caled., Amer. sept., Fret. Bering. — Var. **atroalbida** Nyl. Nat. p. 6. — Saxicola in Port Natal: Armstrong-Mackenzie et in Transvaalia: Wilms. — Endem. — Var. **abolescens** Nyl. in Hb. Stzb. — Corticicola in Madera: Mandon. — Endem.

648. *L. substellulata (Müll. Diagn. Soc. p. 5). — Quartzicola supra Wadi Kischen in insula Socotra 650 m: Schweinfurth. — Endem.

649. L. lævigata (Ach. L. U. p. 357) Nyl. in Flora 1878 p. 345. — Super lignum *Cedri* ad Batna in Sahara: Norrlin. — Europ., Fret. Bering.

650. L. exigua (Ach. Prodr. p. 69) Nyl. l. c. 1873 p. 197. — Supra corticem *Lycii Afri* in Aegypto: Ehren-

(Lecanora)

berg, corticicola prope Constantine: Flagey et prope Lydenburg: Wilms. — Europ., Nov.-Zel., Amer. utraque.

651. *L. tincta* (Müll. in Flora 1885 p. 505). — Ramulicola ad Tschamtei in Duruma Africae orientalis: Hildebrandt. — Endem.

652. *L. ficta*. Thallus cinereus effusus granulatus K—. Apothecia disco plano vel convexiusculo rufofusco vel fusco, margine isabellino integro tandem tenuissimo vel deficiente, diam. ad 0,8 mm. Hymenium superne luteofuscum nonnihil granulose inspersum, paraphysibus subdiscretis crassis in hypothecio incolore. Sporae fuscae ellipticae vel reniformes 1-septatae longit. 0,014-18, crassit. 0,007-8 mm. Gelatina hymenea iodo caerulea. — Super corticem arboris e *Malvacearum* familia prope Durban in Natalia: Wilms. — Endem.

653. *L. roboris* Duf. Hb., Nyl. l. c. 1869 p. 413. — Super corticem *Cedri* ad Batna in Sahara: Norrlin et ad cortices in Port Natal: Armstrong-Mackenzie et Madera: Mandon (Mad. 38). — Europ., Amer. sept. pacific.

654. *L. confragosa* (Ach. Meth. Suppl. p. 33) Rbh. Deutsch. Krypt. Fl., Lich. p. 32. — Saxicola in insula Caprarum sinus Guineensis: Newton. — Europa.

655. *L. subconfragosa* Nyl. l. c. 1872 p. 549. — Saxicola prope Constantine: Flagey. — Europ.

656. *L. Schweinfurthii* (Müll. l. c. 1879 p. 291). — Supra saxa gneissica collium Gumango in territorio Nyamnyam: Schweinfurth. — Endem.

657. *L. milvina* (Whlbn. in Ach. l. c. p. 34) Ach. L. U. p. 358. — Supra saxa calcaria prope Azeba 600 m in Algeria: Flagey. — Europa.

658. *L. deminutula*. Thallus fumidocinereus squamulosogranulatus linea nigra determinatus. Apothecia nigra

crebra concava, margine thallode integro cincta, mox lecidina plana vel convexiuscula, disco sordide opaco, diam. ad 0,4-5 mm. Hymenium superne fuscum in hypothecio incolore, paraphysibus coalitis. Sporæ fuscae 1-septatae medio tumidulae minime constrictae, longit. 0,020-25, crassit. 0,009-10 mm. Reagentia solita in thallum non agunt. — Supra saxa arenaria in Monte Leonis prope Kapstadt: MacOwan. — Endem.

659. L. Bischoffii (Hepp K. Z. 113) Nyl. in Stzb. Hyperb. p. 29. — Supra lapides calcarios ad Constantine in Algeria: Paris, Flagey; prope Laghuat socia *Lecanoræ esculentæ*: Jussuf, ad El Kantara et Biskra in Sahara: Norrlin. — Europ., Amer. sept., Argent. — Var. **ægyptiaca** Müll. Egypt. p. 16. — Calcicola in Wadi Cherese, Wadi Na-umieh superiore necnon in summo Dschebel Cheschen in Wadi Hassane et in Wadi Gendel inter Cahiram et Sues: Schweinfurth. — Endem. — Var. **melonops** Müll. l. c. — Calcicola in Wadi Gineh et in deserto Na-umieh: Schweinfurth. — Endem. — Var. **mediterranea**. Apotheciis cinnamomeis sessilibus rarius immersis. — Supra saxa calcaria ad Sidi Mabruk prope Constantine: Flagey. — Endem.

660. L. minutula (Müll. in Flora 1879 p. 291). — Supra saxa micacea montis Baginse in territorio Nyamnyam: Schweinfurth; rarissima in insula Socotra: Balfour. — Endem.

661. L. granularis (Müll. Diagn. Soc. p. 5). — Calcicola in insula Socotra: Balfour, Schweinfurth. — Endem.

662. L. calciamans. Syn. *L. calcarea* Hepp in Arn. exs. 161. Var. **Ampsagana**. Thallus typo albior planior minus glebulosus K—; apothecia diam. ad 0,7 mm, disco nigro convexiusculo, margine cinereo integro obtuso. Hymenium superne olivaceum in hypothecio incolore. Sporæ octonæ fuscae late ellipsoideæ 1-septatae longit. 0,016-26, crassit.

(Lecanora)

0,008-15 mm. Gelatina hymenea iodo cœrulea, mox vinose rubescens. — Saxicola prope Constantine in Algeria: Flagey. — Endem. — Var. **Algeriensis** Flagey in lit. Thallus macrior, sporæ majores, longit. 0,022-30, crassit. 0,012-16 mm. — Calci-
cola ad Azeba prope Constantine: Flagey. — Endem.

663. L. arenaria (Hepp Fl. E. 646) Nyl. in Flora 1877 p. 232. — Supra saxa granitica dilabentia in fastigio septentrionali Montis Leonis prope Kapstadt: MacOwan. — Europ.

664. L. confragosula Nyl. in Cromb. Cap. p. 172. — Supra saxa arenaria in Monte Tabulari: Eaton. — Nov.-Caled., Argentin.

665. L. Hüfferiana (Müll. in Flora 1880 p. 18). — Supra corticem arborum prope Palestro Algeriæ: Hüffer et prope Lydenburg in Transvaalia: Wilms. — Endem.

666. L. æquata (Ach. l. c. p. 171) Nyl. in Flora 1884 p. 392. — Supra saxa in monte Deban Abyssiniæ: Beccari et calcicola prope Constantine in Algeria: Balansa, Flagey; supra saxa porphyrica prope Lydenburg: Wilms. — Europ.

667. L. præfinita Nyl. in Bol. Soc. Brot. V, 1888 p. 223. — Supra saxum Wacke dictum in insula Principis: Newton. — Endem.

668. L. teichophila Nyl. (in Flora 1863 p. 78) in Lamy Cat. p. 69 var. **corticicola** (Arn. Tir. III p. 6). — Supra Wadi Kischen in insula Socotra 1000 m: Schweinfurth. — Europ.

669. L. teichophiloides. Thallus ochraceofuscus granulatus effusus, K—. Apothecia acervata diam. 0,5-7 mm, concava vel plana, margine thallino ochraceo integro persistente, disco nigro nudo. Epithecium olivaceum inspersum, hypothecium incolor, paraphyses discretæ superne articulatae, in globulum olivaceum desinentes. Sporæ octonæ fuscae 1-sep-

tatae eis *Lecanoræ teichophilæ* similes sed minores, longit. 0,020-24, crassit. 0,01-013 mm. Gelatina hymenea iodo intense cœrulea. — Supra saxa quartzosa schistosa ad Muizenberg in Promontorio Bonæ Spei: MacOwan. — Endem.

670. L. controversa (Mass. Ric. p. 16) Nyl. in Flora 1873 p. 198 var. **Numida**. Thallo pallidiore, apotheciis minoribus, margine persistente; sporis fuscis 1-septatis constrictis, longit. 0,012-20, crassit. 008-10 mm. — Calcicola ad Azeba et Constantine in Algeria: Flagey. — Endem.

671. L. crustulata (Mass. Sched. p. 161). — Supra saxa calcaria prope Constantine in Algeria: Flagey. — Europ.

672. L. detecta. Thallus fere inconspicuus, areolas discretas glebosas minutas stramineas formans, K—. Apothecia nigra minuta concaviuscula vel plana lecideina, margine crassulo integro concolore, juniora a thallo coronata. Epithecium luteofuscum, hypothecium incolor, paraphyses discretæ. Sporæ octonæ oblongæ 1-septatæ fuscae, longit. 0,017-25, crassit. 0,008-10 mm (duplo vel triplo longiores quam latæ). Gelatina hymenea iodo cœrulea. — Graniticola in montibus Transvaaliæ: Wilms. — Endem.

673. L. subanceps Nyl. Ins. Guin. p. 15. — Supra pumicem in insula Caprarum: Newton. — Endem.

674. L. aspera. Thallus olivaceus squamulosoareolatus, in ambitu squamosolobulatus lobulis rugosoplicatis, adpressus, reagentibus solitis non mutatus. Apothecia fusca crebra plana, margine subintegro crassiore albescente, demum convexa margine attenuato, intus albida, diam. ad 1-1,3 mm. Paraphyses coalitæ in hypothecio incolore, superne olivaceæ. Sporæ octonæ ellipticæ vel oblongæ longit. 0,008-13, crassit. 0,003-4 mm. Gelatina hymenea iodo cœrulescens. Spermatia minutissima. — Supra saxa granitica dilabentia Montis Leonis et Tabularis prope Kapstadt: MacOwan. — Endem.

(Lecanora)

675. L. alphoplaca (Whlbn. in Ach. Meth. Suppl. p. 42 Ach. L. U. p. 428. — Supra saxa calcaria prope Constantine in Algeria: Flagey. — Europ., Amer. antarct.

676. L. circinata (Pers. l. c. p. 25) Ach. l. c. p. 425. — Supra lapides calcarios in Algeria: Durieu, Hüffer, Flagey. — Europ., Asia. — Var. **crassior**. Thallo crassiore ambitu brachylobo, apotheciis urceolarinis disco rufofusco. — Supra saxa calcaria prope Constantine 800 m: Flagey. — Endem. — Var. **myrrhina** (Ach. Meth. p. 189) Fr. L. E. p. 124. — Supra lapides in Algeria: Durieu. — Europ.

677. L. subcircinata Nyl. in Flora 1873 p. 18. — Supra saxa calcaria prope Constantine in Algeria: Flagey. — Europ.

678. L. candidata. Thallus cretaceoalbus opacus pulverulentus subeffiguratus, linea nigra limitatus, K+ flavus, dein affuso CaCl nonnihil roseus. Apothecia adpressa diam. 0,2-4 mm, disco concavo vel plano nigro rarius nigrofusco, margine albo integro. Epithecium luteofuscum, hypothecium incolor, paraphyses subarticulatæ rigidæ coalitæ. Sporæ simplices incolores ellipsoideæ vel subglobosæ longit. 0,010-12, crassit. 0,007-8 mm. Gelatina hymenea iodo intense cœrulescens. Spermogonia nigra, spermatia brevissima elliptico-cylindrica in sterigmatibus pauciarticulatis. — Supra saxa duriora varia in Monte Leonis prope Kapstadt: MacOwan. — Endem.

679. L. galactiniza Nyl. in Cromb. Cap. p. 173. — Supra saxa quartzosa in Monte Tabulari: Eaton. — Endem.

680. L. dispersa (Pers. l. c. p. 27) Nyl. Lapp. p. 181 non Flk. — Supra saxa calcaria prope Constantine in Algeria: Flagey. — Europ., Palæst., Nov.-Zel. — Var. **compressa**. Thallus albidus, scutulæ confertæ mutuaque pressione

anguloso-irregulares, disco nigro. — Supra saxa arenacea prope Constantine: Flagey. — Endem.

681. L. argenteofibrosa. Syn. *L. fibrosa* Müll. l. c. 1888 p. 140. — Supra corticem arboris *Baobab* prope San Salvador Africæ occidentalis: Büthner. — Endem.

682. L. subfusca (L. Spec. p. 1609) Ach. L. U. p. 393, Nyl. in Flora 1872 p. 250. — Super cortices prope Constantine: Flagey, prope Batna in Sahara: Norrlin, in Promontorio Bonæ Spei et prope Lydenburg: Wilms. — Europ., Zeylan., Java, Japon., Amer. utraque. — Var. **campestris** Schaer. (Spic. p. 391) En. p. 75, Nyl. l. c. 1873 p. 198. Syn. *L. subf. v. subangulosa* Nyl., Krmplh. in Flora 1868 p. 232. — Supra saxa granitica montis Deban in Abyssinia; Beccari, prope Constantine in Algeria: Flagey, in republica Oranje: Rehmann et super lavam basalticam in Borbonia: Lepervanche, supra terram et basalticola in insula Madera: Fritze, Castello da Paiva. — Europ., Nov.-Caled., Nov.-Zel. — Var. **pumicola** Nyl. in Cromb. Rodr. p. 438. — Supra saxa in insula Rodriguesii: Balfour. — Endem. — Var. **glabra** Nyl. Lapp. p. 132. — Corticicola et saxicola in insula Madera: Mandon (Mad. 3). — Europ., Japon.

683. *L. phæophthalma Nyl. in Flora 1858 p. 489, id. Ins. Guin. p. 16. — Saxicola in insula Sancti Thomæ: Newton. — Tahiti.

684. *L. cacticola Nyl. in lit. — Super truncos *Opuntia vulgaris* prope Tenes in Algeria. — Endem.

685. L. allophana Ach. l. c. p. 395, Nyl. in Flora 1872 p. 250. — Supra cortices arborum in Abyssinia, Algeria, Madera et Madagascar. Saxicola in Madera: Mandon (Mad. 53). Europ., Nov.-Caled., Amer. utraque.

686. L. labiosa. Thallus cinnamomeus effusus granulosis, granulis squamulosis, K+ luteus. Apothecia crebra

(Lecanora)

mutua pressione pro parte angulosa, diam. ad 0,8 mm, disco pallide cinnamomeo plano, margine albo tumido crasso ruguloso. Hymenium in hypothecio incolore, superne rubricosofuscum, paraphysibus tenuibus coalitis. Sporæ octonæ ellipsoideæ simplices hyalinæ, longit. 0,014, crassit. 0,007-8 mm. Gelatina hymenea iodo cœrulescens. Spermata arcuata longit. 0,017-20, crassit. 0,0005 mm in spermogoniis punctiformibus nigris albovestitis. Prope *Lecanoram rugosam* collocanda. — Super corticem arborum montis Spitzkop prope Lydenburg in Transvaalia: Wilms. — Endem.

687. L. granulata Nyl. En. p. 114 et Ins. Guin. p. 16. — Corticicola in insula Grande Comoro. — Endem.

688. L. prosecha Ach. l. c. p. 346, Nyl. Nov.-Granat. Add. p. 543. — Supra saxa granitica dilabentia in monte Deban Abyssiniæ: Beccari. — Wales, Hibern., Ind. occid.

689. L. atrynea (Ach. l. c. p. 395) Nyl. in Flora 1872 p. 250. — Saxicola in monte Deban prope Keren Abyssiniæ septentrionalis: Beccari. — Europ., Brasil.

690. L. notha Müll. Diagn. Soc. p. 4. — Saxicola ad parietes septentrionales montis Bagul in insula Socotra 500 m: Schweinfurth. — Endem.

691. L. horiza (Ach. l. c. p. 394) Nyl. l. c. 1883 p. 107. Syn. *Lecanora Parisiensis* Nyl. Lux. p. 368. — Super corticem *Cedri* ad Batna in Sahara: Norrlin, super arborum truncos prope Constantine: Flagey. — Europ.

692. L. sylvestris Nyl. in Mand. Mad. 1. — Super corticem arborum in insula Madera et in cortice *Rhamni* prope Uitenhagen in Promontorio Bonæ Spei: Kraus. — Inss. Rügen, Bermud.

693. L. chlarona (Ach. l. c. p. 397) Nyl. in Flora 1872 p. 250. — Supra corticem arborum prope Constantine:

Flagey et prope Bône in Sahara: Norrlin, in Angola, ad Promontorium Bonæ Spei, in Natalia: Rehmman, prope Lydenburg in Transvaalia: Wilms, in terra Somali: Hildebrandt, in Abyssinia (*L. subf. v. glebosa* Fw.) et in insulis Madera: Mandon (Mad. 2), Heer, Hartung, Ascensionis: Naumann et Socotra: Schweinfurth. — Cosmopol. — *F. pinastri* (Schaer. Spic. p. 390) Nyl. Pyr. or. p. 20. — Supra corticem *Thuja orientalis* in horto botanico ad Kapstadt: MacOwan. — Europ. — *F. geographica* (Mass. Ric. p. 6) Nyl. in Flora 1873 p. 69. — Corticicola ad Promontorium Bonæ Spei: Breutel. — Europ.

694. *L. coilocarpa (Ach. l. c. p. 393) Nyl. in Lamy Cat. p. 72. — Corticicola prope Constantine: Flagey; supra lignum fabrefactum in horto botanico ad Kapstadt: MacOwan; saxicola prope Lydenburg in Transvaalia: Wilms. — Europ., Amer. sept., Paraguay, Argent.

695. L. achroa Nyl. in Cromb. Rodr. p. 439. — Super corticem arborum in insula Rodriguesii: Balfour. — Endem.

696. L. achroella Nyl. l. c. — Supra truncos arborum in insula Rodriguesii: Balfour. — Endem.

697. L. ferax (Müll. in Flora 1879 p. 291). — Supra saxa ferrosa prope Kutschuk Ali in territorio Dschur: Schweinfurth. — Endem.

698. L. subcrenulata Nyl. (Nov.-Granat. Add. p. 542) Ins. Guin. p. 15. — Corticicola in monte Camerun 2500 m et ad Angolares in insula Sancti Thomæ: Newton; saxicola in insula Sancti Thomæ: idem et Principis: Quintas. — Nov.-Caled., Amer. austral.

699. L. subgranulata Nyl. (Syn. Nov.-Caled. p. 26) in Flora 1876 p. 509. — Supra sepimenta ad Magnam Seriba Ghattas in Africa subcentrali: Schweinfurth; corticicola in Inaccessible Island et ad arbores pomiferas prope Lyden-

(Lecanora)

burg in Transvaalia: Wilms. — Timor, Nov.-Caled., Nov.-Zel., Antill., Brasil.

700. *L. subflavicans* Nyl. in Cromb. Rodr. p. 438. — Super corticem arborum in insula Rodriguesii: Balfour. — Endem.

701. *L. Bogotana* Nyl. Nov.-Granat. Add. p. 543. — Saxicola in Madagascaria centrali: Hildebrandt et in monte Lubombo in Transvaalia: Wilms; corticicola prope Durban: idem. — Amer. austral.

702. *L. æquinocialis*. Thallus cinereus tenuis pulverulentus nigrolimitatus, K+ flavens. Apothecia sessilia orbicularia ætate subangulosa, disco rubrofulco vel nigrofulco plano tandem convexo nudo, margine tenuiter crenulato, diam. ad. 0,8 mm. Epithecium fuscum, paraphyses coalitæ in hypothecio incolore. Sporæ octonæ ellipsoideæ longit. 0,008-10, crassit. 0,004-5 mm. Gelatina hymenea iodo cœrulescens. In stirpe *L. subfusca* minutie sporarum dignota, *L. Bogotana* forte affinis. — Ramulicola prope Banana ad ostium fluminis Kongo: P. Hesse.

703. *L. cinereocarnea* (Eschw. Bras. p. 187). Syn. *L. chloroterodes* Nyl. in Flora 1876 p. 508. — Corticicola prope Lydenburg in Transvaalia: Wilms (Lojka Lichenoth. 77), prope Tschamtei in territorio Sansibar et in insulis Madagascar: Hildebrandt et Madera: Mandon. — Undique in reg. calidioribus.

704. *L. helva*. Thallus cinereoalbescens effusus granulosus, K+ luteus. Apothecia concava vel plana, margine subintegro nonnihil undulato, disco cerino, diam. 0,4-7 mm. Epithecium tenue lutescens, paraphyses coalitæ. Sporæ octonæ ellipticæ incolores simplices longit. 0,011-14, crassit. 0,006-7 mm. Gelatina hymenea iodo cœrulescens. — Super corticem arborum pomiferarum prope Lydenburg in Transvaalia: Wilms. —

705. *L. chlarodes* Nyl. l. c. 1873 p. 198. — Saxicola in Madera: Mandon (Mad. 54). — Europ.

706. *L. angulosa* (Schreb. Fl. Lips. p. 136) Ach. Syn. p. 166. — Ad Port Natal: Armstrong-Mackenzie et in insula Socotra: Schweinfurth. — Europ., Nov.-Caled., Amer. sept., Brasil., Chile.

707. *L. cæsiorubella* Ach. L. U. p. 366. — Corticicola prope Lydenburg in Transvaalia: Wilms (Lojka Lichenoth. 78) et in insulis Madagascar et Madera: Baum. — Nov.-Caled., Amer. utraque.

708. *L. albella* (Pers. l. c. V p. 18) Ach. l. c. p. 369. — Super corticem arborum in Dschebel Wasch prope Constantine: Flagey, in Promontorio Bonæ Spei: Gueinzus, Breutel, prope Lydenburg in Transvaalia: Wilms et in insula Borbonia. — Europ., Asia arct., Nov.-Zel., Amer. arct., sept., Nov.-Granat.

709. *L. flexuosa*. Thallus albus rimosoareolatus, areolis planis, ad marginem indistincte lobulatus, superficie albo-pulverulentus, K+ luteus, CaCl—, K(CaCl)—. Apothecia crebra areolis imposita sessilia diam. 0,3-1 mm, concava flexuoso-irregularia, margine integro crasso concolore subconnivente, disco albopruinoso pallide ochraceo. Hymenium in hypothecio incolore, epithecio luteofusco K— et CaCl—, paraphysibus arcte coalitis vix discernendis, thecis octosporis. Sporæ ovoideæ incolores simplices longit. 0,008-12, crassit. 0,005-6 mm. Gelatina hymenea iodo fulvescens. — Super saxa duriora in loco Duivels Knackler prope Lydenburg in Transvaalia: Wilms. — Endem.

710. *L. homaloplaca* Nyl. Ang. p. 7. — Supra lapides arenarios in Benguella: Welwitsch. — Endem.

711. *L. thiocheila*. Thallus cinereus granulatus determinatus, K+ luteus. Apothecia conferta sessilia, latit. circa

(Lecanora)

1 mm, margine crassiore primum integro tandem nonnihil crenulato vel lobulato-inflexo flavescente, disco cinnamomeo-ochraceo. Lamina in hypothecio incolore, epithecio luteo-fusco insperso, paraphysibus coalitis. Sporæ octonæ ovales vel ellipticæ simplices longit. 0,012-14, crassit. 0,006-7 mm. Gelatina hymenea iodo intensive cœrulea. *Lecanoræ perithiodi* Nyl. in Flora 1876 p. 508 proxima, cui sporæ nonnihil majores, crassiores. — Corticicola prope Lydenburg in Transvaalia: Wilms. — Endem.

712. L. elapheia. Thallus cervinus effusus squamulato-granulatus scaber opacus, K+ luteus. Apothecia crebra conferta plana vel leviter convexa diam. 0,5-1 mm, disco fusco, margine primum superante et crassiusculo, dein extenuato et adplanato integro cæsioalbo. Hymenium superne pallide olivaceum paraphysibus subliberis. Sporæ octonæ simplices ovoideæ incolores longit. 0,012-16, crassit. 0,006-8 mm. Gelatina hymenea iodo cœrulescens. Spermogonia nigra punctuliformia; spermatia bacillaria curvula, longit. 0,009-12, crassit. 0,0006 mm. — Corticicola ad Promontorium Bonæ Spei: MacOwan. — Endem.

713. L. glaucoma (Hffm. D. Fl. II p. 172) Ach. l. c. p. 362. — Saxicola in Algeria. — Europ., Amer. sept., Fret. Bering., Boliv. — Var. **corrugata** Nyl. Alg. p. 324. — Supra cortices et ligna prope Batna in Algeria: Balansa. — Endem.

714. L. flavovirens Fée Ess. p. 115. — Corticicola in Port Natal: Armstrong-Mackenzie; saxicola prope Saldanhabay: Osbeck (*Parm. thallina* Ach. Meth. p. 172). — Amer. austral.

715. L. Vincentina Nyl. in Cromb. Chall. p. 212. — Saxicola in insula Sancti Vincentii. — Endem.

716. L. subradiosa Nyl. in Flora 1872 p. 549. — Supra saxa arenacea prope Constantine in Algeria: Flagey. —

Fret. Bering. — Var. **terminata**. Thallus lineis nigris decussatus et limitatus. — Ibidem. — Endem.

717. L. subcarnea (Sw. in Vet. Ak. Handl. 1791 p. 176) Ach. ib. 1810 p. 74. — Supra saxa Wacke dicta in insula Principis. — Europ., Nov.-Granat.

718. L. dirinæformis Mass. Cap. p. 57. — Supra saxa vulcania in insula Ascensionis: Wawra. — Endem. — Bona species prope *L. glaucomam* et *blandam* Nyl. Exot. p. 219, Boliv. p. 378 et Nov.-Granat. Ed. II p. 32 disponenda. Sporæ 0,010-12 mm longæ, 0,006-7 mm crassæ. Spermata bacillaria curvula longit. 0,001, crassit. 0,0005 mm. Thallus K+ ferrugineorubens.

719. L. Hageni Ach. (Prodr. p. 57) Syn. p. 167 p. p., Nyl. in Flora 1872 p. 250. — Supra cortices et ligna circa Constantine in Algeria: Flagey. — Europ., Turcoman., Amer. sept., Fret. Bering.

720. *L. luridatula Nyl. l. c. 1875 p. 298 et 1876 p. 577. — Super lignum *Cedri* ad Batna in Sahara: Norrlin. — Fennia.

721. L. umbrina (Ehr. Pl. cr. 245) Mass. Ric. p. 10, Nyl. l. c. 1872 p. 250 f. **cyanescens** (Pers.?, Ach. Meth. p. 163) Nyl. l. c. 1876 p. 283. — Supra truncos arborum in Delta Nyli: Larbalestier. — Europ.

722. L. Teneriffensis Nyl. in Cromb. Chall. p. 218. — Super corticem arborum in insula Teneriffa. — Endem.

723. L. Bormiensis Nyl. in Flora 1872 p. 250. — Supra corticem *Cedri* prope Batna in Sahara: Norrlin. — Alp. europ.

724. L. crenulata (Dicks. Crypt. 3 p. 14) Nyl. Lapp. p. 181. — Calcicola in deserto Galala: Schweinfurth. — Europ., Palæst.

(Lecanora)

725. L. detrita (Mass. in Lotos 1856 p. 76) Müll. Egypt. p. 13. — Calcicola in Wadi Cherese Aegypti: Schweinfurth. — Europ.

726. L. Agardhiana Ach. Syn. p. 152. — Saxicola in insula Sancti Vincentii: Breutel. — Europ.

727. L. conferta (Dub. Bot. Gall. p. 654) Nyl. Nov.-Gran. Add. p. 545 non Scand. p. 169. — Supra saxa arenacea in Dschebel Wasch prope Constantine 800 m: Flagey. — Gall.

728. L. cruda. Thallus albocinereus effusus minute granulosus. Apothecia crebra rubrofusca vel fusca parvula diam. 0,2-3 mm plana vel convexiuscula, margine thallino tenui integro tandem evanescente. Epithecium fuscum, hypothecium incolor, paraphyses subdiscretæ. Sporæ octonæ incolores simplices ovaes vel reniformes, longit. 0,010-15, crassit. 0,007-8 mm. Gelatina hymenea iodo cœrulescens. Spermogonia ignota. Reagentia solita in thallum non agunt. E stirpe *L. Hageni*. — Super corticem arborum pomiferarum prope Lydenburg in Transvaalia: Wilms. — Endem.

729. L. Armstrongiæ (Jon. in Nyl. Nat. p. 11). — Corticicola in Port Natal: Armstrong-Mackenzie. — Endem.

730. L. atosulfurea (Whlbn. Lapp. p. 411) Ach. Syn. p. 149, Nyl. in Flora 1883 p. 107. Syn. *Lecideola flavescens* Hmp. apud Mass. Cap. p. 90. — Supra scorias vulcanias in insulis Canariis: Hartung (Hepp Fl. E. 776); in Monte Leonis supra saxa granitica dilapsa: MacOwan. — Europ., inss. Norman., Amer. arct., Fret. Bering. — F. **leptococca**. Thallus tenuior areolis minoribus granuliformibus. — Ad Muizenberg in Promontorio Bonæ Spei: MacOwan. — Endem. — F. **livens**. Disco viridipruinoso, margine thallode persistente. — In summo Monte Leonis prope Kapstadt: MacOwan. — Endem.

731. *L. cinefacta. Thallus sulfureocinerascens effusus granulosus vel rimososubareolatus, K+ luteus, dein affuso CaCl+ leviter aurantiacus. Apothecia minuta latit. 0,1-3 mm nigrofusca vel nigra, primum subimmersa plana, margine thallino tenui integro cincta, demum sessilia convexa immarginata. Hymenium in hypothecio incolore, epithecio fusco crasso, paraphysibus crassis superne furcatis, discretis. Sporæ octonæ incolores simplices oblongæ longit. 0,008-12, crassit. 0,005 mm. Gelatina hymenea iodo intense cœrulea. A *Lecanora atrosulfurea* differt paraphysibus discretis. — Super saxa granitica montis Lubombo in Transvaalia: Wilms. — Endem.

732. L. rimosula Flag. in lit. Thallus pallide sulfureus rimosoareolatus effusus, K+ luteus, affuso CaCl+ aurantiacus. Apothecia atra singula areolis innata sæpe tenuiter sulfureopruinosa rotunda vel maculosoirregularia vel mutua pressione angulosa, plana rarius concaviuscula vel nonnihil convexa, diam. ad 0,8 mm, margine thallino integro mox evanescente. Hymenium e paraphysibus coalitis et thecis lanceolatis compositum, superne rubrofuscum in hypothecio incolore. Sporæ ellipsoideæ longit. 0,011-14, crassit. 0,005-7 mm. Gelatina hymenea iodo intense cœrulescens. Spermatia bacillaria arcuata vel hamata, longit. ad 0,020, crassit. 0,0007 mm. — Supra saxa arenaria numulithica in monte Fdules prope Constantine Algeriæ: Flagey. — Endem.

733. L. sulfurea (Hffm. En. p. 32) Ach. L. U. p. 399. — Supra saxa varia in Algeria. — Europ.

734. L. Socotrana Müll. Diagn. Soc. p. 5. — Quartzicola „vulgaris et characteristic species“ insulæ Socotra: Balfour et Schweinfurth. — Endem. — F. **lividonigricans** Müll. l. c. — Cum forma genuina: Balfour. — Endem.

735. L. varia (Ehrh. l. c. 68) Ach. l. c. p. 377. — Supra ligna et cortices in Algeria et in Promontorio Bonæ

(Lecanora)

Spei: Kraus. — Europ., Asia arct., Nov.-Caled., Nov.-Zel., Amer. utraque.

736. L. expallens (Pers. Hb.) Ach. l. c. p. 374, Nyl. in Flora 1872 p. 248. — Supra cortices arborum prope Durban: Wilms. — Europ. — Var. **lutescens** (DC. apud Ach. l. c. et in Fl. Fr. 2 p. 354) Nyl. l. c. — Supra corticem *Quercuum* in Monte Tabulari: MacOwan. — Europ.

737. L. perlutescens Nyl. in Cromb. Rodr. p. 439. — Super cortices arborum in insula Rodriguesii: Balfour. — Endem.

738. L. symmicta Ach. (l. c. p. 379) Syn. p. 340. — In Madagascaria centrali: Hildebrandt. — Europ., Nov.-Caled., Nov.-Zel., Amer. sept., Fret. Bering.

739. L. conizopta Nyl. l. c. p. 440. — Saxicola in insula Rodriguesii: Balfour. — Endem.

740. L. obvirescens. Thallus cinereovirescens pulvereus linea nigra determinatus. Apothecia adpressa lecanorina concaviuscula vel plana, margine thallo concolore integro, disco flavescente, diam. 0,2-3 mm. Lamina superne incolor in hypothecio incolore, paraphysibus discretis. Sporæ octonæ ovales incolores simplices longit. 0,011-14, crassit. 0,006-7 mm. Gelatina hymenea iodo cœrulescens dein sordide obscurata. Thallus K+ flavovirens, K(CaCl)—. Affinis *L. expallenti*, sed jam thalli reactione ab hac diversa. — Supra partes lignosas *Phœnicis dactyliferæ* agrestis ad Durban: Wilms. — Endem.

741. L. conizæa (Ach. L. U. p. 374) Nyl. in Flora 1872 p. 249. — Supra truncos decorticatos in insula Rodriguesii: Balfour et in territorio Sansibar: Hildebrandt; in insula Madera: Heer, Hartung. — Europ., Japon., inss. Fidschi, Nov.-Caled., Paraguay.

742. *L. leucoxanthella*. Syn. *L. leucoxantha* Müll. in Flora 1888 p. 205. — Corticicola prope Lydenburg in Transvaalia: Wilms. — Endem.

743. *L. carneoflava* Müll. l. c. — Corticicola prope Lydenburg: Wilms. — Endem.

744. *L. subintricata* Nyl. (l. c. 1868 p. 478) ib. 1872 p. 249. — Supra ramulos *Pini* in Dschebel Wasch prope Constantine: Flagey. — Europ., Fret. Bering.

745. *L. constans* Nyl. Class. 2 p. 199. — Corticicola in Port Natal. — Europ., Amer. sept.

746. *L. crassilabra* Müll. l. c. — Corticicola prope Lydenburg in Transvaalia: Wilms. — Endem.

747. *L. sambuci* (Pers. in Ust. N. Ann. I p. 26) Nyl. Scand. p. 168. — Supra corticem arborum in Algeria: Flagey et in Madera. — Europ., Amer. sept.

748. *L. porracea*. Thallus pallide viridulofuscescens effusus. Apothecia granulis thallinis marginata, disco hepatico, ad 0,6 mm lata. Epithecium et hypothecium incoloria, paraphyses non discretæ, thecæ octosporæ. Sporæ incolores 1-septatæ ellipticæ vel fusiformioblongatæ longit. 0,011-14 mm, crassit. 0,006-7 mm. Gelatina hymenea cœrulescens dein sordide violascens vel vinose rubescens. — Super saxa calcarea prope Constantine in Algeria: Flagey. — Endem.

749. *L. pinguiuscula* Delile Egypt. p. 159, Nyl. Aeg. p. 5. — Supra lapides Pyramidis Ghizensis primæ: Delile, Ehrenberg. — Endem.

750. *L. erysibe* (Ach. Prodr. p. 50) Nyl. Scand. p. 167. — Supra lapides prope Constantine: Flagey; in ruderibus prope columnam Pompeji ad Alexandriam: Ehrenberg; calcicola in Dschebel Gharebun deserti Aegypti mediæ: Schwein-

(Lecanora)

furth. — Europ., Argent. — F. **incusa** (Krb. Pg. p. 140). — Calcicola in Dschebel Gharebun: Schweinfurth. — Europ.

751. ***L. albariella** Nyl. Aeg. p. 5. — Calcicola prope Alexandriam: Ascherson. — Helvet. — F. **ecrustacea** Nyl. ib. — Supra lapides oolithicos prope Abusir et Alexandriam: Ehrenberg, in Aegypto submediterranea: Barbey. — Palæst.

752. **L. brachyspora** (Müll. Egypt. p. 15). — Calcicola in deserto Galala: Schweinfurth. — Endem.

753. **L. Rabenhorsti** Hepp K. Z. 92. Syn. *L. proteiformis* (Mass. Sched. p. 92) Nyl. in Flora 1881 p. 538. — Super saxa inter Keren et Massaua: Beccari, supra terram et saxa prope Constantine: Flagey. — Europ. — Var. **crassescens**. Thallus areolatodiffractus crassior fuscescenti-cinereus. — Supra lapides siliceos prope Constantine in Algeria: Flagey. — Endem. — Var. **subcæsia** Nyl. Aeg. p. 5. — Saxicola prope Abusir: Ehrenberg, inter Pyramides et tumulos Ghizenses: LARBALÉSTIER, in Wadi Cherese et in summo monte Mokattam: Schweinfurth, prope Alexandriam: Ascherson, Barbey. — Endem.

754. **L. leucospila**. Thallus cæsiolbus granosoareolatus subeffusus. Apothecia crebra ex areolis oriunda plana, diam. ad 0,4 mm, margine thallino crasso integro, disco atro pruinoso. Epi- et hypothecium incoloria, paraphyses subdiscretæ superne clavatæ et pauciarticulatæ. Sporæ octonæ incolores 1-septatæ, longit. 0,012-17, crassit. 0,006-8 mm. Gelatina hymenea iodo intense cœrulescens. — Saxicola ad flumen Rhummel in Constantine: Flagey. — Endem.

755. **L. fructuosa**. Thallus squamulosoareolatus, areolis minutis polygonis læte viridibus vel fuscocinereis concavis continuis vel subcontiguis, K= . Apothecia crebra, diam. 0,5-1,5 mm, margine integro cinereo tandem evanescente,

disco nigrofusco plano. Hymenium incolor, epithecio olivaceo, hypothecio incolore, paraphysibus discretis. Sporæ octonæ incolores ellipsoideæ 1-septatæ, interdum medio contractæ, longit. 0,010-15, crassit. 0,005-7 mm. Gelatina hymenea iodo cœrulescens. Spermogonia non visa. — Supra saxa duriora (granitica et arenaria) in summo Monte Leonis prope Kapstadt: MacOwan. — Endem.

756. **L. arthroodes** Nyl. in Flora 1876 p. 283. — Super truncos *Mimosæ* circa Birket Ghuttas meridiem versus Alexandriæ: Larbalestier. — Endem. — Var. **extrita** Nyl. l. c. — Supra truncos arborum ad Zowyet el Ghazal inter Alexandriam et Cahiram: idem. — Endem.

757. **L. Rehmanni**. Thallus cinereus cartilagineo-squamulosus. Apothecia crebra diam. 0,6-1,3 mm, fusconigra convexa nitida, margine thallino tenui integro subpersistente, intus cinerea. Hymenium pallide fulvescens in hypothecio fulvo, epithecio incolore, paraphysibus non discretis. Sporæ octonæ simplices incolores fusiformes, longit. 0,010-14, crassit. 0,0020-25 mm. Gelatina hymenea iodo cœrulescens. Epithallus K+ luteus. Spermata frustra quæsita. — Corticicola in Natalia superiore: Rehmman. — Endem. — Sporarum forma excellens, forte e stirpe *L. badia*.

758. **L. atra** (Huds. Fl. Angl. II p. 530) Ach. L. U. p. 344. — Saxicola prope Milah in Algeria 450 m: Flagey. Corticicola et saxicola in Promontorio Bonæ Spei: Zeyher et in insula Madera. Thallo flavido in insula Borbonia. — Europ., Palæst., Zeylan., Japon., Nov.-Caled., Nov.-Zel., Amer. utraque, Fret. Bering. — Var. **succedanea** Nyl. in Cromb. Rodr. p. 440. — Super corticem arborum, ligna emortua et saxa in insula Rodriguesii: Balfour. — Endem. — Var. **discolor** (Duby Bot. Gall. p. 670) Schaer. En. p. 72, Nyl.

(Lecanora)

Alg. p. 325. — Supra saxa argillacea prope Oran: Balansa.
— Neustria.

759. **L. atrorimata** Nyl. in Cromb. Cap. p. 174. —
Saxicola in Monte Tabulari: Eaton. — Endem.

760. **L. diffusibilis** Nyl. l. c. — In Monte Tabulari:
Eaton. — Endem.

761. **L. albospersa**. Thallus glebulosoareolatus, areolis albis discretis in hypothallo nigro, K+ citrinus tandem sanguineus. Apothecia disco nigro concaviusculo, plano vel leviter convexo, margine albo subintegro, ætate flexuosa, intus cinereorufescentia diam. 0,25-0,7 mm. Hymenium superne nonnihil violaceum, epithecio nigrofulco, hypothecio incolore, paraphysibus coalitis. Sporæ octonæ incolores elongatoellipticæ simplices, longit. 0,014-20, crassit. 0,006-10 mm. Gelatina hymenea iodo cœrulea dein vinose fulvescens. Spermogonia nigra punctiformia areolis insidentia, spermatis brevissimis longit. 0,002-3, crassit. 0,0005 mm. Propter spermatorum dimensionem nulli nisi stirpi *Lecanoræ intercinctæ* inserenda. — Supra saxa quartzina in Warme Bokkeveld prope pagum Ceres ad Promontorium Bonæ Spei: MacOwan. — Endem.

762. **L. granifera** Ach. Syn. p. 163, Nyl. Nov.-Caled. p. 28. — Corticicola in Guinea et in insula Sancti Thomæ 700—810 m: Moller. — Nov.-Caled.

763. **L. psarophana** Nyl. in Flora 1872 p. 429. — Saxicola ad Constantine in Algeria: Paris. — Pyren.

764. **L. nitens** (Pers.) Ach. Syn. p. 335, Nyl. l. c. 1869 p. 298. — Supra saxa arenaria prope Constantine in Algeria: Paris. — Gallia.

765. **L. psaromela** Nyl. in Cromb. Cap. p. 174. — Saxicola in Monte Tabulari: Eaton. — Endem.

766. **L. sulfureoatra** Nyl. En. p. 114. — In insulis Canariis. — Endem.

767. L. syringeae (Ach. Meth. p. 163) Nyl. in Lamy Cat. p. 79. Syn. *L. athroocarpa* Dub. — Supra corticem arborum prope Constantine: Flagey. — Europ., Amer. sept. — Var. **Mansuræ** (Flagey in lit.). „Thallus quam in typo crassior, apothecia persistenter fuscorubella nunquam obscurata“ ib. — Supra corticem *Pini* prope Constantine: Flagey. — Endem.

768. L. diplotommoides (Bagl. in Comm. critt. it. I p. 126). — Prope Palestro in Algeria: Hüffer. — Ins. Sardin.

769. L. hæmatomma (Ehrh. Hannov. Mag. 1786 p. 285) Ach. L. U. p. 388. — Supra saxa in Madera. — Europ.

770. L. Fenzliana (Mass. Cap. p. 58). Thallus K+ fulvescens. Epithecium luteum inspersum, paraphyses non discretæ, gelatina hymenea iodo cœrulescens. Sporæ 3—7-septatæ, longit. 0,018-27, crassit. 0,003-5 mm. — Supra saxa insulæ Ascensionis: Wawra. — Endem.

771. L. punicea (J. E. Smith in Ach. Meth. p. 167) Ach. L. U. p. 395. Syn. *L. collata* Stirt. et *Hæmatomma simile* Bagl. Abyss. p. 248. — Supra ligna prope Keren Abyssiniæ: Beccari, in Africa australi et in insulis Borbonia, Rodriguesii et Sancti Thomæ. — Gall. occid., Asia or., Austral., Nov-Zel., Polynes., Amer. utraque. — Var. **brevicula**. Sporis brevioribus, longit. 0,025-34, crassit. 0,004 mm. — Corticicola in collibus supra Maritzburg Nataliæ: Rehmman. — Endem.

772. L. rubra (Hffm. D. Fl. II p. 175) Ach. l. c. p. 389. — Corticicola in Algeria. — Europ.

773. L. tartarea (L. Spec. p. 1608) Ach. l. c. p. 371. — Corticicola in insula Madera (Mand. Mad. 8), saxicola in insula Ascensionis: Wawra. — Europ., Asia arct., Amer. sept. — F. **tenuior** Nyl. in Mand. Mad. 5. — In insula Madera. — Endem.

(Lecanora)

774. **L. pallescens** (L. l. c., Ach. l. c. p. 370) Schaer. l. c. p. 78. — Corticicola et saxicola in insula Madera: Mandon (Mad. 9). — Europ., Japon., Polynes., Amer. utraque.

775. **L. parella** (L. Mant. p. 132) Ach. l. c. — Saxicola in Algeria, Port Natal: Armstrong-Mackenzie et in insulis Madera (Mand. Mad. 56), Lanzarote: Hartung et Teneriffa. Corticicola in Transvaalia: Wilms. — Europ., Asia arct., Boliv., Cap. Hoorn. — Var. **aggregata** Bagl. l. c. p. 246. — Corticicola prope Keren Abyssiniæ: Beccari. — Endem.

776. **L. Upsaliensis** (L. Spec. p. 1609) Nyl. in Flora 1881 p. 454. — Supra corticem *Oreodaphnes* in insula Madera: Fritze. — Europ., Asia sept., Amer. sept.

777. **L. gyalectella** (Mass. l. c. p. 62). Thallus K+ luteus dein rubricosus; etiam discus K+ rubens. Paraphyses crassæ rigidæ non bene discretæ. Gelatina hymenea iodo pallide cœrulescens. Sporæ octonæ simplices incolores late ovoideæ longit. 0,008-11, crassit. 0,004-6 mm. — Supra saxa et scorias vulcanias insulæ Ascensionis: Wawra.

778. **L. gibbosa** (Ach. Prodr. p. 30) Nyl. Scand. p. 154. Forma sporis longit. ca. 0,033, crassit. 0,013 mm; spermatiis cylindricis rectis longit. 0,008-10, crassit. 0,0005 mm. — Supra saxa silicea prope Philippeville 50 m in Algeria: Flagey. — Typus in Europ., Texas, Fret. Bering.

779. **L. trachytica** (Mass. Ric. p. 44). — Supra saxa arenaria prope Constantine Algeriæ: Flagey. — Europ.

780. **L. farinosa** (Flk. in Berl. Mag. 1810 p. 125) Nyl. in Flora 1873 p. 199. — Calcicola ad Gasser-eschdachi: Ehrenberg, prope Constantine: Flagey. — Europ.

781. **L. calcarea** (L. l. c. p. 1140) Smmrf. Suppl. p. 102. — Calcicola in Algeria. — Europ., Amer. sept. — **F. opegraphoides** (DC. Fl. Fr. 2 p. 371) Nyl. Prodr. p. 82.

— Super saxa prope El Kantara in Sahara: Norrlin. — Gall. mitior. — Var. **Hoffmanni** (Ach. l. c. p. 31) Nyl. l. c. p. 83. — Calcicola prope Alexandriam: Ehrenberg. — Europ., Argentin. — Var. **contorta** (Hffm. l. c. p. 186) Nyl. in Flora 1872 p. 554. — Supra lapides calcarios prope Constantine: Flagey, prope El Kantara in Sahara: Norrlin et ad Laghuat socia *Lecanoræ esculentæ*: Jussuf. — Europ., Amer. sept., Fret. Bering. — Var. **microspora** (Arn. Krain und Küstenl. p. 20). — Supra saxa calcaria prope Constantine: Flagey. — Europ.

782. L. circummunita Nyl. l. c. 1878 p. 340. — Supra saxa prope Biskra Saharæ: Norrlin. — Endem.

783. L. nubila. Thallus obscure cæsiocinereus vel cæsiofumidus crassus pulverulentus, intus albus, epithallo K virentiflavo, medulla K lutescente. Apothecia conferta nigra innata, diam. 0,2-3 mm, mutua pressione nonnihil angulosa, margine thallode vix prominulo, disco concaviusculo v. plano. Lamina epithecio rufo in hypothecio incolore, paraphysibus coalitis filiformibus. Sporæ octonæ ovales vel oblongæ simplices incolores longit. 0,010-11, crassit. 0,005-6 mm. Gelatina hymenea iodo cœrulescens. — Super saxa dolomitica in monte Spitzkop prope Lydenburg in Transvaalia: Wilms. — Endem.

784. L. rhizophora (Delile l. c. p. 155) Müll. Egypt. p. 15. — Supra lapides siliceos in Vallée d'Egarement: Delile. — Endem.

785. L. phlæoleuca Nyl. in Cromb. Rodr. p. 440. — Ramulicola in insula Rodriguesii: Balfour. — Endem.

786. L. esculenta (Pall. It. III p. 760) Eversm. N. Act. Leop. XV, 2 p. 356. — Et libera supra terram et supra saxa dolomitica in Algeria: Lebrun, fertilis ad Oran: Balansa. (Rbh. L. E. 199, Hepp Fl. E. 632, Arn. exs. 794). — Asia.

(Lecanora)

787. *L. fruticulosa* Eversm. l. c. p. 352, Nyl. in Flora 1881 p. 183. — Sterilis ad Constantine in Algeria: Reboud. — Asia.

788. *L. Cheresina* Müll. l. c. p. 14. — Calcicola et silicicola in desertis Wadi Cheresse et Wadi Na-umieh superiore, in Dschebel Gharebun et in summo Dschebel Cheschen in Wadi Gendel inter Cahiram et Sues et in monte Mokattam: Schweinfurth. — Endem.

789. *L. mutabilis* (Ach. L. U. p. 335) Nyl. Alg. p. 324. — Corticicola in Dschebel Tugur prope Batna in Algeria: Balansa. — Europ.

790. *L. subcœrulea* (Delile l. c. 154) Müll. l. c. p. 13. — Supra saxa silicea in Vallée d'Egarement: Delile. — Endem.

791. *L. subcalcarea* Müll. l. c. p. 14. — Calcicola in deserto Wadi Cheresse: Schweinfurth. — Endem.

792. *L. Prevostii* (Fr. in Duby l. c. p. 671) Fr. fil. Scand. p. 288. — Supra saxa calcaria prope Constantine: Flagey. — Europ., Fret. Bering.

793. *L. epulotica* (Ach. l. c. p. 151) Nyl. in Cromb. Brit. p. 55. — Forma microcarpa supra saxa calcaria prope Constantine: Flagey. — Europ., Amer. sept.

794. *L. coarctata* Ach. (Meth. p. 158) L. U. p. 352, Nyl. in Flora 1886 p. 101. — Saxicola in Algeria, supra saxa granitica montis Deban Abyssiniæ: Beccari, supra terram prope Lydenburg: Wilms et prope Serra d'Agoa 1300 m in insula Madera: Fritze. — Europ., Japon., Fret. Bering., Amer. sept., Brasil. — **F. cotaria** Ach. (Meth. Suppl. p. 11) L. U. p. 353. — Supra saxa arenaria in Monte Leonis prope Kapstadt: MacOwan. — Europ., Nov.-Zel. — **F. argilliseda** Duf. in Fr. L. E. p. 105. — Supra terram argillaceam montis

Spitzkop prope Lydenburg in Transvaalia: Wilms. — Europ.
 — Var. **fossilans**. Thallus sordide roseus effusus crassus
 furfuraceopulverulentus K(CaCl)+ erythrinus. Apothecia
 bina vel trina coacervata, disco fusco, margine concolore,
 facile elabentia fossulas subrotundas albas in crusta relin-
 quentia. Sporæ longit. 0,018-20, crassit. 0,008-12 mm. — Supra
 saxa arenacea montis Spitzkop: Wilms. — Endem.

795. L. arridens (Nyl. in Flora 1876 p. 573). Apotheciis
 typo obscurioribus nonnihil diaphanis. — Supra saxa arenaria
 in summo Monte Leonis prope Kapstadt: MacOwan. — Europ.

796. L. holophæa Mnt. Canar. p. 113. — Supra rupes
 prope mare et supra terram in earum rimis in Algeria:
 Letourneux, in insulis Canariis: Despréaux et Madera: Mandon.
 — Spec. marit. in Hibern., Armoric., Cap. Bearn, Corsica.

797. L. candidissima (Nyl. Alg. p. 327). — Supra saxa
 calcaria montis Dschebel Tugur in Algeria: Balansa et prope
 Constantine: Flagey. — Endem.

798. L. chlorophana (Whlbn. MS.) Ach. L. U. p. 436.
 — Saxicola in monte Tezi regni Maroccani: Hooker et in
 insula Teneriffa: v. Fritsch. — Europ., Amer. sept., Boliv.

799. L. tersa (Fr. l. c. p. 118) Nyl. Scand. p. 173. Syn.
L. Scheicheri var. *microcarpa* Nyl. Prodr. p. 81. — Supra
 terram aridam et saxa in Algeria; supra saxa in Benguella:
 Welwitsch. — Gall. merid.

800. L. Schleicheri (Ach. l. c. p. 322) Nyl. l. c. —
 Supra terram aridam in Algeria (Rbh. L. E. 871). — Helvet.,
 Gall. merid., Amer. sept.

801. *L. dealbata (DR. Alg. p. 248) Nyl. Aeg. p. 5. —
 Saxicola prope Oran in Algeria: Durieu. — Endem. — **F.**
radicans Nyl. l. c. — Supra terram sabulosam prope Bir
 Hamam in Aegypto: Ehrenberg. — Palæst.

(Lecanora)

802. L. xanthophana Nyl. En. p. 113, id. Add. Boliv. p. 379. Syn. *Urceolaria citrina* Tayl. in Hook. Journ. Bot. 1847 p. 158. — Ad Promontorium Bonæ Spei: Eaton, prope Lydenburg in Transvaalia: Wilms. — Amer. sept., Nov.-Granat., Boliv., Chile, Argent.

803. L. thæodes (Mass. Cap. p. 87). — Supra lapides prope Pungo Andongo in Angola: Welwitsch, Soyaux; saxicola in Promontorio Bonæ Spei: Wawra et in collibus Gungu territorio Nyamnyam: Schweinfurth. — Endem.

804. L. endocarpea (Fr. l. c. p. 128) Nyl. Alg. p. 326. — Supra terram sabulosam et saxa recentioris formationis Algeriæ; prope Biskra frequens: Balansa. — Europ.

805. L. fuscata (Schrad. Spic. p. 83) Nyl. Scand. p. 175. — Supra saxa montis Sinai: Ehrenberg (nonnihil dubia). — Europ. — Var. **minutissima** Bagl. l. c. p. 245. — Supra rupes graniticas prope Keren in Abyssinia: Beccari. — Endem.

806. L. Abyssinica (Bagl. l. c. p. 246). Thallus K (CaCl)† erythrinicus. Paraphyses crassæ, articulatae, subdiscretæ. Gelatina hymenea iodo vinose rubens. — Supra saxa granitica montis Deban Abyssiniæ: Beccari. — Endem.

807. L. porinoides. Thallus effusus tenuissimus cinereus K—. Apothecia minutissima diam. 0,1-2 mm, quasi verrucarioidea, margine thallino crasso integro connivente, disco concavo impressulo nigrofusco. Hymenium superne rubrofuscum, hypothecium incolor, paraphyses crassæ subdiscretæ, thecæ amplæ polysporæ. Sporæ subglobosæ vel late ellipsoideæ longit. 0,003, crassit. 0,002 mm. Iodo thecæ cœrulescunt. — Saxicola in montibus trachyticis Taaiboschkranz ad Rhenosterrivier in republica Oranje: Rehmman. — Endem. — Nulli nisi *L. belonioidi* Nyl. Lapp. p. 139 comparanda.

808. *L. cervina* (Pers. in Ach. Hb.) Ach. Syn. p. 188 p. p., Nyl. Scand. p. 174. — Saxicola prope Alexandriam: Ehrenberg et in Algeria (?). — Europ., Amer. arct. — Var. ***squamulosula*** Flagey in Hb. Stzb. Sporæ longit. 0,010-17, crassit. 0,004-7 mm. — Supra saxa silicea ad viam inter Krubs et Constantine Algeriæ: Flagey. — Endem.

809. *L. interrupta* Ehrenb. MS., Nyl. Aeg. p. 5. — Supra rupes graniticas friabiles montis Sinai: Ehrenberg, calcicola in deserto Ægyptiaco Galala: Schweinfurth. — Endem.

810. *L. placenta* Ehrenb. Hb., Nyl. l. c. p. 6. — Supra saxa friabilia granitica in monte Sinai: Ehrenberg. — Endem.

811. *L. percænoides* Nyl. Arm. p. 399. — Supra saxa prope El Kantara in Sahara: Norrlin; calcicola prope Azeba 600 m: Flagey. — Europ.

812. *L. smaragdula* (Whlbn. Lapp. p. 460) Nyl. in Flora 1872 p. 429. — Supra lapides in Monte Tabulari: Eaton, Jelinek. — Europ., Amer. sept., Fret. Bering.

813. *L. rufescens* (Borr. E. B. suppl. t. 2657) Nyl. l. c. 1881 p. 178. — Supra muros prope Chephren in Aegypto sterilis: Larbalestier. — Europ., Asia arct.

814. *L. incolor* Nyl. l. c. 1878 p. 340. — Supra terram arenosam prope Biskra in Sahara: Norrlin. — Endem.

815. *L. scutula*. Thallus rubricose cinnamomeus minute squamulosus nitidus effusus. Apothecia minuta innata rotunda vel difformia concava, primitus a thallo marginata, margine thallode sæpe solediosulo inde albo, tandem lecidina sessilia nigra opaca diam. 0,2 mm. Epithecium fuscum, paraphyses robustæ non discretæ, superne fuscescentes, thecæ polysporæ. Sporæ minutissimæ longit. 0,0025, crassit. 0,002 mm. Gelatina hymenialis iodo vinose fulvescens. — Socia *Leca-*

(Lecanora)

noræ tersæ supra saxa silicea prope Dellys Algeriæ: Trabut.
— Endem.

816. L. laqueata. Thallus cæsius vel cæsiomurinus, humectatus castaneofuscus, determinatus, in ambitu sublobatus, in centro rimosoareolatus, areolis olivaceis pruinosis inæqualibus angulosis concavis, in margine albis et nonnihil pulverulentis; reagentia solita non agunt. Apothecia nigra solitaria vel bina areolis immersa concaviuscula vel plana, primitus discoidea a thallo marginata, demum immarginata angulosa diam. 0,2-5 mm. Hymenium superne luteo-olivaceum in hypothecio incolore, paraphysibus crassis non discretis, thecis polysporis. Sporæ incolores simplices oblongæ, longit. 0,005-6, crassit. 0,002 mm. Gelatina hymenea iodo intense cœrulea. — Calcicola ad Azeba in Algeria 600 m: Flagey (Arn. exs. 1434). — Endem. — Quoad thallum comparanda *Lecidea fumosa* v. *ocellulata* Schaer. En. p. 110, Anzi Man. No. 65, id. Symb. No. 39, Hepp Fl. E. 722, Critt. it. 1083.

817. L. pruinosa (Sm. E. B. t. 2244) Nyl. Prodr. p. 146. — Saxicola in monte Deban Abyssiniæ, in Wadi Na-umieh superiore Aegypti: Schweinfurth et in Algeria supra mortarium murorum prope Milah 350 m et supra saxa calcaria et arenacea ad Constantine: Flagey. — Europ., Argentin.

818. L. lugens. Thallus nullus. Apothecia conferta lecideina nigra plana rarius rimiformia, disco plano, margine tenuissimo, interdum flexuoso, ætate convexa immarginata, diam. 0,2-1,2 mm. Epithecium nigricans, lamina superne violacea in hypothecio fusco, paraphyses coalitæ. Sporæ numerosæ in thecis, elongatoellipticæ simplices longit. 0,010-12, crassit. 0,0025 mm. Gelatina hymenea iodo intense cœrulea. A congeneribus sporis majoribus differt. — Graniticola in Monte Leonis prope Kapstadt: MacOwan. — Endem.

819. *L. simplex* (Dav. Trans. Linn. Soc. II p. 283) Nyl. l. c. — Supra saxa arenaria et schistosa Algeriæ, calcicola in deserto Galala Aegypti: Schweinfurth. — Europ., Nov.-Zel., Grœnl. — Var. ***calcifraga*** Müll. Egypt. p. 18. — Calcicola in Wadi Na-umieh et Wadi Cherese in Aegypto: Schweinfurth. — Endem.

820. *L. pumilio*. Thallus effusus pulverulentus ochraceus. Apothecia nigra nitida minima, diam. ca. 0,1 mm, margine lecideino, concava, fere gyalectina. Hymenium e paraphysibus parcis crassioribus nonnihil ramosis et thecis polysporis compositum. Sporæ minutissimæ globulosæ diam. vix 0,002 mm. Thecæ iodo luteofuscescentes. — Saxicola in Dschebel Wasch prope Constantine: Flagey. — Endem. — *Lecanoræ urceolatae* (Anzi) valde affinis.

821. *L. robiginans* Stzb. non *L. rubiginans* Nyl. in Flora 1873 p. 291. Thallus ochraceoferrugineus tenuis granulatus nonnihil rimulosus effusus. Apothecia margine thalino mox evanido lecideina concava vel plana, disco nigro subpruinoso, margine nigro nudo, tandem convexa immarginata, diam. 0,2-7 mm, intus cinerea. Lamina superne smaragdula in hypothecio incolore, paraphysibus discretis superne inflatis, thecis polysporis. Sporæ minutissimæ globulosæ diam. circa 0,002 mm. — Super saxa arenaria prope pagum Muizenberg in Promontorio Bonæ Spei: MacOwan. — Endem.

822. *L. Clavulus*. Thallus deficiens. Apothecia nigra lecideina substipitata diam. 0,3-4 mm, margine nitidiusculo flexuoso, disco cæsiopruinoso. Epithecium fumidofuscum, paraphyses conglutinatae in hypothecio fusco, thecæ polysporæ. Sporæ globulosæ minutissimæ diam. ca. 0,002 mm. — Supra saxa arenaria ad Muizenberg in Promontorio Bonæ Spei: MacOwan. — Endem.

(Lecanora)

823. L. glaucocarpoides Nyl. l. c. 1878 p. 342. — Supra saxa calcaria prope El Kantara in Sahara: Norrlin. — Endem.

824. L. albocæsia Nyl. l. c. p. 340. — Supra lapillos calcarios prope Biskra in Sahara: Norrlin. — Endem.

825. L. Newtoniana Henriq. apud Nyl. Ins. Guin. p. 17. — Super folia *Elæidis Guineensis* in insula Sancti Thomæ: Newton. — Endem.

826. L. imitans Nyl. l. c. — Cum priore. — Endem.

827. L. dactylopholis Nyl. in Flora 1886 p. 172. — Corticicola in insula Sancti Thomæ 1050—1250 m: Moller. — Endem. — Incertæ sedis.

828. L. lithagoga Nyl. Ang. p. 7. — Supra saxa arenacea in summis jugis Montium nigrorum prope Mossamedes: Welwitsch. — Endem. — Incertæ sedis.

829. Urceolaria actinostoma Pers. in Ach. L. U. p. 288. — Supra saxa arenaria prope Constantine: Flagey, prope Lydenburg: Wilms; in rupibus graniticis montis Deban in Abyssinia: Beccari; quartzicola in Wadi Digal insulæ Socotra 550 m: Schweinfurth. — Europ., Amer. sept., Paraguay. — F. **calcaria** Müll. Egypt. suppl. p. 7, Arn. exs. 1437. — Calcicola prope Constantine 600—750 m: Flagey, in Dschebel Gharebun deserti Aegypti mediæ et in Wadi Gineh et Wadi Hassane: Schweinfurth. — Endem. — Var. **cæsioplumbea** Nyl. in Flora 1873 p. 70. — Supra saxa arenacea necnon granitica dilabentia Montis Leonis et Tabularis prope Kapstadt in Promontorio Bonæ Spei: MacOwan. — Pyren. — Var. **ænea** Müll. Parag. p. 12. — Saxicola in Promontorio Bonæ Spei. — Texas.

830. U. deuteria Nyl. l. c. 1886 p. 321. — Supra terram in Monte Tabulari: Eaton. — Ins. St. Paul.

831. *U. subcuprea* Nyl. in Cromb. Cap. p. 175. — Saxicola in Monte Tabulari: Eaton. — Endem.

832. *U. scruposa* (L. Mant. p. 131) Ach. Meth. p. 147. — Supra saxa in Algeria, Sahara, Guinea et in insulis Madera et Borbonia. — Europ., Zeylan., Nov.-Zel., Amer. utraque. — ***F. arenaria*** Ach. in Schaer. Spic. p. 75. — Supra terram arenoso-calcariam summi Dschebel Wasch prope Constantine 1000 m: Paris (Rbh. L. E. 870); supra saxa arenaria in summo Monte Leonis prope Kapstadt: MacOwan et in insula Madera: Hartung. — Europ., Brasil., Guatemala. — ***F. iridata*** (Mass. Ric. p. 34). — Prope Constantine: Flagey. — Europ.

833. *U. bryophila* (Ehrh. Pl. cr. 236) Ach. L. U. p. 341, Nyl. in Norrl. Karel. p. 27. — Supra terram in insula Teneriffa. — Europ., Amer.

834. *U. gypsacea* Ach. l. c. p. 338. — Supra saxa calcaria et terram calcariam in Aegypto, Algeria, Sahara et in insula Madera: Mandon (Mad. 39). — Europ., Japon., Amer. sept.

835. *U. Africana* (Krmplh. Afr. p. 143) Müll. in Flora 1882 p. 331. — Supra terram montis Serrut 1200—1800 m prope Meid in terra Somali: Hildebrandt. — Endem.

836. *U. bryophiloides* Nyl. in Flora 1878 p. 345. — Supra squamas *Cladoniarum* prope Bône in Sahara: Norrlin. — Endem.

837. *U. subsordida* Nyl. Pyr. orient. p. 55. Sporæ longit. 0,030-35, crassit. 0,013-20 mm. *U. clausa* (Fw. Siles. p. 134) Krb. Pg. p. 105, Syn. *U. Euganea* Mass. It. exs. 79 valde affinis. — Supra saxa arenaria numulithica montis Fdules inter Constantine et Dschedschelli in Algeria: Flagey. — Pyren. orient.

(Urceolaria)

838. U. cinereocæsia (Sw. Flor. Ind. occid. 3 p. 1889) Ach. Meth. p. 148. — Supra terram inter muscos summi montis Boschberg Africae australis: MacOwan et montis Spitzkop prope Lydenburg in Transvaalia: Wilms. — Lusit., Nov.-Zel., Amer. centr. et australis.

839. U. minor (Krmph. l. c.). — Prope Meid in terra Somali: Hildebrandt. — Endem. — Medulla thalli K+ flavescens, CaCl+ erythrinosa, iodo non reagens.

840. U. ocellata (Vill. Delph. 3 p. 988) DC. l. c. p. 372. — Supra saxa calcaria et terram in Algeria, prope Mogador in regno Maroccano: Hooker, in insulis Canariis: Hartung. — Europ., Turcoman.

841. Dirina capensis (Fée Hb.) Nyl. En. p. 116. Syn. *Urceolaria capitata* Nees. Thallus K (CaCl)+ erythrinicus. — Saxicola in Promontorio Bonæ Spei: Zeyher. — Endem.

842. D. repanda (Fr. l. c. p. 177) Nyl. Alg. p. 313. — Supra saxa calcaria in Algeria, Marocco: Hooker et in insula Socotra: Balfour. — Europ. — Var. *Ceratoniae* (Ach. L. U. p. 361). — Supra *Cactos* et varias arbores in Algeria, Marocco: Brun, in Promontorio viridi: Perrottet et in insula Socotra: Balfour. — Europa austral., Zeylan.¹

843. D. cinerea Müll. Diagn. Soc. p. 9. — Cum forma solediosa calcicola in insula Socotra: Balfour. — Endem.

844. *D. immersa Müll. l. c. p. 10. — Unacum forma solediatata mixtim cum priore in insula Socotra: Balfour. — Endem.

845. Phlyctella Andensis Nyl. (in Flora 1869 p. 121) Nov.-Zel. p. 73. — Supra arborum truncos in monte Boschberg: MacOwan. — Florid., Nov.-Granat., Brasil.

¹ De forma incerta *Dirinae* saxicola ad Promontorium viride lecta cfr. Cromb. Chall. p. 213.

(Phlyctella)

846. P. capillaris (Strt. Add. p. 217). Similis priori. — Corticicola in Africa australi (Strt. l. c.). — Endem.

847. Phlyctis Boliviensis Nyl. Exot. p. 221. — Corticiola in Port Natal: Armstrong-Mackenzie et in monte Boschberg Africae australis: MacOwan. — Boliv.

848. P. agelæa (Ach. Prodr. p. 30 p. p., Wallr. Fl. Germ. II p. 553) Krb. S. L. G. p. 391. — Corticicola in Algeria: Letourneux. — Europ., Texas.

849. Pertusaria aperta. Thallus cinereus effusus tenuissimus vel evanescens, verrucæ disseminatæ globulares sensu radiali subrugosæ monopyrenicæ, epithecio tandem dilatato lecanorino albomarginato nigro. Paraphyses graciles, thecæ 3—4-sporæ. Sporæ elongatoellipticæ vel citreiformes, mucu hyalino obductæ, longit. 0,070-90 μ m (sine halone), crassit. 0,024-32 μ m, ætate nigricantes. Gelatina hymenea iodo cœrulescens. Reactiones solitæ deficiunt. — Saxicola ad Muizenberg in Promontorio Bonæ Spei: MacOwan.

850. P. amara (Ach. Syn. p. 131) Nyl. in Flora 1873 p. 22. — Saxicola in Monte Tabulari: Eaton et prope Lydenburg in Transvaalia: MacLea. — Europ.

851. P. velata (Turn. in Trans. Linn. Soc. IX p. 143) Nyl. Scand. p. 179. — Corticicola in Promontorio Bonæ Spei: Sieber, Wilms, in Loango: Peschuel-Loesche, in insulis Madera: Mandon (Mad. 7), Sancti Vincentii (teste Leighton), Sancti Thomæ 850 m: Moller, Rodriguesii: Balfour et Borbonia. — Europ., Asia, Austral., Polynes., Amer. utraque.

852. P. xantholeuca Müll. l. c. p. 6. — Quartzicola in insula Socotra 900 m: Schweinfurth. — Endem.

853. P. multipuncta (Turn. l. c. IV p. 137) Nyl. l. c. — Supra arborum truncos et ramulos in Madera. — Europ., Asia or., Austral., Amer. austral. et antarct.

(Pertusaria)

854. P. Wawreana Mass. Cap. p. 78. Thallus ei K flavescit. — Supra saxa quartzosa in Promontorio Bonæ Spei: Wawra, MacOwan. — Endem.

855. P. Wawreanoides Nyl. in Cromb. Cap. p. 174. — Saxicola in Monte Tabulari: Eaton, Jelinek, MacOwan; sterilis in Monte Leonis: MacOwan, ad pagum Muizenberg: idem. — Endem.

856. P. ceuthocarpa (Sm. l. c. t. 2372) Fr. L. E. p. 423, Nyl. Prodr. p. 98 et in Flora 1883 p. 532. — Corticicola in Monte Tabulari: Wilms. — Europ.

857. P. Leonina. Thallus albus areolatus, ad peripheriam sublobulatus et determinatus, areolis convexis, K+luteus dein sanguineus. Apothecia solitaria in thalli areolis, primum clausa dein late aperta, disco plano albopruinoso vel nudo nigro tandem convexo, margine thallino crasso. Sporæ singulæ vel binæ, longit. 0,070-115 mm, crassit. 0,030-50 mm. Gelatina hymenea iodo cœrulea, sporæ luteofuscescentes. — Supra saxa granitica et arenaria in Monte Leonis et Tabulari prope Kapstadt: MacOwan. — Endem. — *P. Wawreanoidi* proxima at thallo albiore, disco nigro et sporis majoribus.

858. P. subdealbata Nyl. in Cromb. Cap. p. 175. — Saxicola in Monte Tabulari: Eaton. — Endem.

859. P. leioplaca (Ach. Vet. Ak. Handl. 1809 p. 159) Schaer. Spic. p. 66. — Supra cortices imprimis lævigatos in Algeria, Promontorio Bonæ Spei, Port Natal, in insulis Madera, Teneriffa et Borbonia. — Europ., Ind. or., Austral., Polynes., Amer. utraque. — Var. **octospora** Nyl. Scand. p. 182. — Supra cortices in Port Natal, in Monte Tabulari et in insulis Borbonia et Madagascar. — Europ., Ind. or., Amer. calid. — Var. **trypetheliiformis** Nyl. (Exot. p. 241) Nat. p. 7. — In Port Natal: Armstrong-Mackenzie et in Monte Tabulari: Mac

Owan. — Nov.-Caled., Antill., Amer. austr. — Var. **pyncocarpa** Nyl. Nov.-Granat. p. 37. — Corticicola prope Lydenburg in Transvaalia. — Nov.-Granat.

860. P. aspera Müll. in Flora 1885 p. 507. — Ramulicola ad Tchamtei in Duruma Africæ orientalis: Hildebrandt. — Endem.

861. P. Diaziana Mass. Cap. p. 77. — Supra saxa arenaria in summo Monte Tabulari: Wawra, MacOwan. — Endem.

862. P. flavicunda Tuck. Obs. IV p. 176. — Supra saxa arenaria in Warme Bokkeveld prope vicum Ceres ad Promontorium Bonæ Spei: MacOwan. — Calif.

863. P. Socotrana Müll. Diagn. Soc. p. 6. — Supra saxa calcaria et granitica vulgaris in insula Socotra: Balfour, Schweinfurth. — Endem.

864. P. communis DC. l. c. p. 320. — Supra cortices in Algeria. — Europ., Bengal., Amer. sept. — Var **minor** Müll. in Flora 1877 p. 473. — Corticicola in insula Sancti Mauritii: Robillard. — Endem. — Var. **Neocaledonica** Nyl. Syn. Nov.-Caled. p. 31. Syn. *P. cicatricosa* Müll. Diagn. Soc. p. 6. — Ramulicola in insula Socotra: Balfour, Schweinfurth. — Zeylan., Nov.-Caled. — Var. **rupestris** DC. l. c., Nyl. in Flora 1881 p. 456. — Supra saxa basaltica ad Ribeiro frio in insula Madera: Fritze. — Europa.

865. P. euglypta Tuck. l. c. p. 177. — Supra saxa granitica ad Promontorium Bonæ Spei: Wright. — Endem.

866. P. pertusella Müll. in Flora 1884 p. 283. — Corticicola in insula Sancti Mauritii: Robillard. — Endem.

867. P. xanthomelæna Müll. l. c. 1888 p. 207. — Corticicola in Monte Tabulari ad Promontorium Bonæ Spei: Wilms. — Endem.

(Pertusaria)

868. *P. cryptostoma* Müll. l. c. p. 206. — Corticicola prope Lydenburg in Transvaalia: Wilms. — Endem.

869. *P. Wilmsii*. Thallus cinereus tenuis granulatus obscurus, verrucis parvulis concoloribus dense aggregatis irregulariter hemisphaericis, passim binis biscociformi-confluentibus, pulverulentis mono- rarius pleiopyreniis, diam. 0,6-8 mm, ostiolis depressis punctiformibus rarius substellatis, tandem (ad 0,20-25 mm) latiusculis, disco cinereopruinoso. Sporæ binæ in quavis theca, longit. 0,085-115, crassit. 0,025-40mm. Gelatina hymenea imprimis thecarum iodo cœrulea. Thallus K vix flavens, K(CaCl)—. „E vicinitate *P. pustulatae*“ Nyl. — Supra corticem arboris e *Malvacearum* familia prope Durban in Natalia: Wilms. — Endem.

870. *P. pustulata* (Ach. L. U. p. 309) Nyl. Prodr. p. 195. — Corticicola in Algeria: Salzmänn, prope Keren in Abyssinia: Beccari et in Promontorio Bonæ Spei: Zeyher, Breutel. — Europa, Austral., Massachusetts. — Var. **heterochroa** Müll. l. c. 1884 p. 285. — Ramulicola in Algeria: Salzmänn et prope Lydenburg in Transvaalia: Wilms (Lojka Lichenoth. 80). — Europ. merid.? — *P. pustulata* var. *superpallens* Nyl. in Flora 1886 p. 466 *heterochroæ* peraffinis videtur.

871. *P. melaleuca* Dub. l. c. p. 673, Nyl. Prodr. p. 99. — Corticicola in terra Somali et in Sansibar: Hildebrandt, in Promontorio Bonæ Spei: Zeyher, in insulis Canariis. — Europ., Austral., Amer. utraque.

872. *P. thiostruma* Nyl. MS. Thallus K vix flavens. Sporæ quaternæ longit. 0,065-75(-120), crassit. 0,025-35(-50) mm. — Super corticem arboris e *Malvacearum* familia prope Durban in Natalia: Wilms. — Endem.

873. *P. perlutescens*. Syn. *P. lutescens* (Eschw. Bras. p. 118) Krmpfl. Südsee p. 103 non Hffm., Nyl. — Ramuli-

cola in insula Socotra: Schweinfurth. — Austral., Polynes., Amer. calid.

874. *P. schizostoma* Müll. Diagn. Soc. p. 5. — Ramulicola in insula Socotra: Balfour, Schweinfurth. — Endem.

875. *P. flavens* Nyl. En. p. 116 et Antill. p. 12. — In insulis Madagascar et Socotra: Balfour. — Antill., Brasil.

876. *P. subflavens* Müll. l. c. — Ramulicola in insula Socotra: Schweinfurth. — Endem.

877. *P. subtruncata* Müll. in Flora 1884 p. 397. — Corticicola in insula Sancti Mauritii: Robillard. — Endem.

878. *P. cæsioalba* (Fw. in Bot. Zeit. 1850 p. 571) Nyl. Add. Chil. p. 160 et in Flora 1868 p. 346. — In Africa boreali et supra corticem *Ericæ arboreæ* prope Torinhas in insula Madera: Fritze. — Circa mare mediterr.

879. *P. Wulfenii* DC. l. c., Nyl. Scand. p. 181. — Corticicola in Algeria et in insula Sancti Mauritii: Robillard. — Europ., Amer. sept. — Var. *rugosa* (Ach. Syn. p. 110) Nyl. in Flora 1873 p. 71. — Supra corticem *Castaneæ vescæ* prope Libramento in Madera: Fritze. — Europ.

880. *P. cinctula* Müll. l. c. 1885 p. 507. — Ramulicola in regione Bogos Abyssiniæ: Hildebrandt. — Endem.

881. *P. leioplacella* Nyl. Syn. Nov.-Cal. p. 32. — Super corticem arborum pomiferarum prope Lydenburg in Transvaalia: Wilms. — Zeylan., Nov.-Caled., Amer. centr., Brasil.

882. *P. ambigens* (Nyl. En. p. 113) Tuck. l. c. p. 176. Thallus K+ luteus dein sanguineo-rubens. — Corticicola et saxicola in Promontorio Bonæ Spei: Zeyher, Wright, MacOwan. — Oregon.

883. *P. elatior* Strt. Add. p. 216. Arcte affinis *P. ambigenti* Nyl. — Corticicola in Africa australi (Stirt. l. c.). — Endem.

(Pertusaria)

884. P. inquinata (Ach. L. U. p. 353) Fr. fil. Scand. p. 311 p. p., Stzb. L. H. No. 637. — Supra saxa arenaria duriora in summo Monte Tabulari: MacOwan. — Europ.

885. P. Antinoriana Jatta Afr. p. 173. — Corticicola in regno Schoa: Antinori. — Endem.

886. P. melanospora Nyl. Add. Chil. p. 159. — Supra saxa arenaria in Monte Tabulari: MacOwan. — Chile.

887. P. vepallida Nyl. in Cromb. Cap. 175. — Saxicola in Monte Tabulari: Eaton. — Endem.

888. P. aleianta Nyl. in Cromb. Chall. p. 213. — Saxicola in Promontorio viridi. — Endem.

889. P. impallescens Nyl. in Cromb. Rodr. p. 440. — Saxicola in insula Rodriguesii: Balfour. — Endem.

890. Tremotylum Angolense Nyl. in Flora 1865 p. 3 et Ang. p. 8. — Supra truncos vetustos *Euphorbiæ candelabri* in agro Loandensi: Welwitsch (Majo mense 1854). — Endem.

891. Polystroma Fernandezii Clem. Ens. Add. p. 299, Ach. Syn. p. 136. — Corticicolum, sterile et adhuc dubium in insula Sancti Thomæ: Moller. — Hisp.

892. Thelotrema crassulum Nyl. Exot. p. 258. — Corticicola in insula Borbonia: Boivin. — Endem.

893. T. microporum Mnt. Syll. p. 363. — Corticicola in insula Sancti Thomæ 1250 m: Moller. — Zeylan., Java, Polynes., Florid., Cuba, Brasil.

894. T. diplotrema Nyl. l. c. — Ramulicola in insula Borbonia. — Endem.

895. T. cavatum Ach. in N. Act. Stockh. 5, 33 p. 92. — Corticicola prope Sierra Leone: Afzelius. — Asia or., Nov.-Cal., Amer. æquinoct. — F. **pruinsum** Nyl. l. c. — Supra corticem *Tabernæmontanæ* in insula Borbonia. —

Endem. — Var. **obturatum** (Ach. l. c.) Nyl. Consp. Thel. p. 96. — Corticicola in Guinea: Afzelius et in insula Sancti Thomæ 800—2100 m: Moller. — Endem.

896. T. albidopallens Nyl. Andam. p. 9. — Corticicola in insula Sancti Thomæ 1150 m: Moller. — Inss. Andam.

897. T. foratum Nyl. in Flora 1886 p. 173. — Corticicola in insula Sancti Thomæ 1050 m: Moller. — Endem.

898. T. Pechuelii Müll. Afr. occ. p. 34. — Supra ramos arborum ad flumen Quillu Africae occidentalis: Pechuel-Loesche. — Endem.

899. T. discoideum Ach. l. c. p. 94. — Corticicola in Guinea: Afzelius. — Amer. æquinoct.

900. T. fumosum Ach. l. c. p. 91. Syn. *Pyrenula trypanea* Ach. Syn. p. 119. — Corticicola in Guinea: Afzelius. — Endem.

901. T. subterebratum Nyl. l. c. p. 174. — In Pico insulae Sancti Thomæ: Moller. — Endem.

902. T. muscigenum. Thallus cinerascens tenuissimus pulverulentus effusus. Apothecia pallide flavescentia, disco concavo ochroideo, margine thalino membranaceo tandem dilacerato-reflexo, margine proprio perithecioideo deinde dilatato. Paraphyses discretæ. Sporæ solitariæ incolores oblongæ muriformes, longit. 0,080-120, crassit. 0,020-30 mm. Gelatina hymenea iodo non tinctoria, sporæ cœruleonigricantes. Thallus et epithecium K+ (flava dein ferruginose rubra vel aurantiaca). — Supra muscos ad arbores in Monte Tabulari: MacOwan. — Endem.

903. T. lepadinum Ach. (Prodr. p. 30) L. U. p. 312. — In Promontorio Bonæ Spei. — Europ., Nov.-Zel., Amer. — F. **Maderense** Stein in Jahrber. d. schles. Gesellsch. 1882 p. 232. Thallus albus granulato-cartilagineus, apotheciorum

(Thelotrema)

verrucae thallo magis concolores, magis depressae, laeviores, et ad basin placidius in thallum abeuntes quam in typo. — Supra corticem *Oreodaphnes foetidæ* ad Serra d'Azoa 1000 m in insula Madera: Fritze. — Endem.

904. T. leioplacoides Nyl. En. p. 118. — Corticicola in Promontorio Bonæ Spei ad Howisonport (Hb. Sonder) et in Monte Tabulari: MacOwan. — Endem.

905. T. fissum Nyl. Exot. p. 258. — Supra corticem arborum in insula Borbonia. — Endem.

906. T. henatomma Ach. l. c. p. 316. — Supra cortices ad Promontorium Bonæ Spei: Thunberg. — Endem.

907. Gyrostomum scyphuliferum (Ach. Syn. p. 27) Fr. S. O. V. p. 268. — Supra corticem arborum ad Sierra Leone et prope Lydenburg in Transvaalia: Wilms. — Zeylan., Asia orient., Polynes., Amer. trop. et subtrop.

908. Cœnogonium Leprieurii Nyl. Cœnog. p. 89. — Supra cortices sylvarum in insulis Borbonia et Sancti Mauritii. — Zeylan., Borneo, Polynes., Amer. æquinoct. et austr.

909. C. interpositum Nyl. l. c. p. 91. — In insula Borbonia: Lepervanche. — Amer. utraque.

910. C. interplexum Nyl. l. c. p. 92. — Supra corticem arborum prope Baziya in Caffraria: Baur. — Nov.-Granat., Argent.

911. C. implexum Nyl. l. c. — Corticicolum in planitie secus flumen Quillu: Pechuel-Loesche. — Zeylan., Nov.-Holland., Nov.-Zel.

912. Crocynia gossypina (Sw. Fl. Ind. occ. 3 p. 1887, Nyl. Syn. II p. 52) Ach. L. U. p. 217, Nyl. in lit., Syn. *Byssocaulon molliusculum* (Fée Hb.) Nyl. En. p. 119. — Cum f. **cineritia** (Ach. Syn. p. 201 Nyl. Syn. II p. 53) corticicola locis humidis in insula Borbonia, saxicola in insula Sancti Mauritii. — Jamaic., St. Doming. et Guyana gall.

(Lecidea)

913. Lecidea lutea (Dicks. Crypt. I p. 11) Schaer. En. p. 147. — Corticicola in Algeria: Letourneux, ad Port Natal: Armstrong-Mackenzie et in insula Principis: Quintas. — Europ., Asia calid., Austral., Polyn., Amer. utraque.

914. L. cupularis (Hedw. Stirp. cr. II p. 58) Ach. Meth. p. 56. — Supra saxa basaltica ad Ribeiro frio in insula Madera: Fritze, in insula Ascensionis: Wawra. — Europ., Amer. sept.

915. L. carneola Ach. L. U, p. 194. — Supra corticem fruticum in Schoa: Antinori. — Europ., Amer. sept.

(Concludetur hæc commentatio anno proximo.)