Edinburgh University Prize Dissertation
In the degree of M.D., 1858.
Monograph on the British Parmeliaceae
by
Alexander C. Maingay.
March 1858.
Drawings.
Ramalina calicaris. This
pars d. fraxineae. Linn.
Ramalina calicaris. Hæs
Ramulina calicata. Fuss
O. canaliculata. Jusselm.
Kalameina polygonastre. Ph.
Ctherosia glauca. Line

[Drawing of three circles]

1 1/2 inches. 4 1/2 inches. 3 3/4 inches.

Drawn from a specimen in the herb. B. M. Meech.
Cetonia Lapincola. Ethi.
Ichnia juniperina. Lin.
Cetraria Islandica: frim

1 & ½ inch long
3 mm thick
3.5 inches.
Olearia nivalis. Linn

1 mile long
3 rods
Amicaria peltata. B. halysbifennis. Lim.
Conicolaria jucata. & cimflexa. Fuss
Convolvulus pilatus. S. silacea. Rch.
Coniculare eohuslum a. reg. Furt
Corniculaciae ochroleuca. b. emeiinata. Triss.
cervicalaria aculeata. Dhk.
lunæcula in miseris. Neō.
Peltigera aphthosa. Leine.
Pellizera canina. Linna.
Veltigera auffescens. Neck.
Eng. Bf. tab 2,300.
Ptiligera polydactyla, Kocher.
Peltigera lactata. Lin.
Peltigera horizonitalea. Linear.
Peltigera venosa. Line.
He left the room.

He sat down on the couch.
Smorina crocea, Linn.

Drawn to show
1 to 100 scale. 1.0. Molyne.

Diagram of the section of the leaf of Smorina crocea.
Euxenia muunastri.
Evenia perfuracea. Linn.

From the authenticated specimens in Migrated at
Hachepark. in 1829. No. 63.

1/2 12 and long

e. 2 - found 1st March.
Hida aurata. Smith.

Drawn from specimens communicated by Professor Balfour, to Rev. Soc. Bot. Edinbuitis, cell at the Vagone Moutnumis, Brazils.
Stătu crocata. Lim
Sticta macrophylla. Lec.
Stăla jimbridă. Taylor!! U.S.S.
Stăla Duporii. Delii.
Stella fuliginosa. Dute.
Silia sylvatica. Lin.
Sticta pulmonaria. Linn.

[Sketch of Sticta pulmonaria]

First image: 
Second image: 
Third image: 
Fourth image: 

Exit

First image: 
Second image: 
Third image: 
Fourth image: 

Exit
Sticta gloenuifera. Light.

Drawn from specimens in fruit, collected by the Rev. Mr. Harris, near Leefdale, Durham. (Herbms.).
Stäta herbaeca. Hudson.
Imbriciaria perforata. Inv.
Imbricaria tiliacea. Erk.
Succinea Borreri. Turner.

From a specimen collected at Cassana, Demesne of Knighton (in Kew zoo).
Imbricaria saxatilis. Finn
Var B. amphalectes. Yssdm.
Imbricaria aleurites
Imbricaria hypertropha, Aeth.
Imbricaria hypophylla, Rbl.
Imbricaria pertusa, SCH.
Imbricaria physodes line

Known from specimens in the Rev. J. Dalton collection from Falls, Cumberland by the Rev. J. Nason. 1

3-5, 6, 7, 8, 9.]

1 = Rev. J. Nason.
Imbricaria incausta. Smith.

Return from the Authentic Discovery on Norway to Another Ship in Norway, in 1831.

1 mile = long 7 ft. 6 in.

\[ \frac{1}{2} \text{ hour} = 7 \text{ ft. 6 in.} \]
Imbricaria acutulabellum. Nick.
Imbricări obiacele. Line
Imbricaria slygria. Linnt.
for Tahitianensis. Gisdom.
Intriciaria caparata. Linna.
Imbricaria diffusa. Web.

Scanned from the authentic specimen in the British Museum, Berlese, 1892, 14 sq. of Imbricaria diffusa. Web.

1 - with bug
2 - with 1/2 bug
4 - with 2/3 bug
(Parmelia) Smutcaea plumbea. light...

2 x 3 mm long
1 x 3 mm thick.
Imbriciaria saxicola Pölich
Var f.v. compactum. Reuber.
Imbricaria cincinnata. Novum
Var. A. radiatum. Hoffm.

Drawn from the original. Boston, 1836
By E. T. Judson
2d and 3d States

Drawn from an specimen cut by Thos
R. J. Haviland to "Sketches by the Mill
near Bramhall Castle."

Drawn from a specimen cut by Thos
R. J. Haviland to "Sketches by the Mill
near Bramhall Castle."
Imbucaria cinnamata. Pers.,
Var. B. myrtifolia. Alb.
Intricaria Cantigera. Weber.

Drawn from an authentic specimen from the Deacon Turner ill in Cook Rest I. Dalton.

Drawn from an authentic specimen coll by Mr. D. Turner.

Drawn from specimens collected near Grand River, Powell Butte, by John Haines. Age 1 3/4 to 2 1/2 long. From head 3 1/3 inches.
Imbriciation estreata. Hoffm.
Imbricaria palliscens, linn.

Skeletone \frac{1}{2} x Narke,
\text{no notes on image}

Drexs lurne \frac{3}{4} \text{ lurne} \frac{1}{3} \times \text{Narke}

\text{no notes on image}

Skeletone 4 \text{ x Narke} \frac{3}{4} \times \text{Narke}.
Imbricaria tectata, line
Var. B. speciosa, line.
Imbricaria luctuosa. Dick's
Var. a. melata. Hammond.

3.6 mm long. 3/25. Anter.
Anticiparia sucaloba. Dickens
var B. Nichols. Green.
Inoceramis sulffusca. Linne.

1 1/2 times longer.
3/4 = hand, 1 1/2 =力量.
Lithae arenulatus. Dickson.
Imbricaria sulcifusca, Linnaeus
Var. muscicola, Schimp.

Drawn from the authentic type in Schipper, Ledebour. Vol. 7. 511.
Imbricaria pallida. Schreib
Var. a. albella. Persoon.
Imbricaria galactina. Ach.
Imbriciaria varia. Eckh.
Var. maculeformis. Hoffm.
Lichen sulphureus. Smith.
Imbricaria cordata, Abd.
Var. A. glaucina, S gek.

Saved from the Mt. Hope Ave. in Lebanon, L. N. Ser. 384. 11.

3 1/2 miles from
% = % = Road 1.5 Measuring.

2 1/2 miles long.
1 mile near J. C. Helwig.
Imbrăcărea lui Dedu, A.d.
Var B. Swartjie, A.d.
Intricaria Indica. Ed.
Var y. Subanua. Westing -
Imbricări inovulate. Taylor, m. H. H. H.
Imbricaria radia, Persoon
Var (1. vulgaris, H. n.)
(Pamadae) Induaria bledia. Keiser.
Var B. milvina. Wahl.
Instituaria atra. Hudson.
leanne's address. wmtc.
Imbricaria cuneata auct. et auct. ACH.
Imbricaria ebuloticola. Rb.


Imbricaria melanophaca. Tod.
Drawn from one of a set of specimens of the plant forwarded by the Rev. W. R. Lightfoot to Dr. Pylander, Paris, and named by him "The true Leidea Olderi of Ach" (now Eng 1364).
Imbriciaria cinerea Linn.
Var. B. atro cinerea Schur
Lanaria cinerea. Linm.
Var. Levala. Roth.

Sketches of the specimen.
Received from a specimen in beet root cell on the Russet Downs by the late Mr. John Hennings, Parks, Sheffield, and sent to Mr. W. Mudd, Cleveland, Yorkshire.
Întrunire calcară \( \times \text{linie} \)

Var A ........
Indicinaea aculeata, line
Var. B. citrata. Horke.

5 to a unit long
25 to 30 - heads [2x Drawing]
Family Flavicans, louriz.

From specimen in fruit, Bot. Soc. Ednicensis, cultivated in Cornwall by Mr. John Rolfe.
Parnelia chrysophalma. linn.

From the north of England.

Ships to the right.

3 x 8:00 / 3 x 6:00
Hormelia lacustrina. Linne.
Var A. platysphylla. Hotow.
Carreria fulgens. Swartz.

Drawing from the original specimen in Schlechtendal Herb. No. 2386.
Mammalia gelida. line.

12.6 & 31st long 1.517 - bred 0.2988.


Parmelia mucronata. Hoffm.

Diagram showing different stages in the life cycle of Parmelia mucronata.
Pamela muriatur, Hoffn
Dar P. miniatum. Fustem.
Pamela elegans. Hulse.
Parmelia murorum. Lepeau.
Var. S. ciliata. Ach.
Parmelia mucronata. Bk.
Varititas.

Var. crustacea: rosio.
Parmelia cactepisma. Sch.
Parm. muscorum. var. B.

[Signature]

drawn from the authentic specimen in Schrenk's book Data No. 214917
Pamela aurantiaea. Lightf.
Var A. salicina. Schrad.
Nemacia amantica Linn.

Ker-B. flava var scincens Hoffm.
Parmelia aurantiaca. Lightf.
Var y. rubescens. Schoo. Ms. 1127.11

Parmelia aurantiaca. Lightf.
Var d. holocarpa. Erdt.

1.5 mm long
1/2. 5 mm broad 1/2. Small.
Nymea luteo-alba. Sum
Var. a. aureovitacea. Herb. non Lighfoot
Carmelia arina. Chalk.
Var. a. Elsbiarti. Schorrer.

1st fig. long. 2nd. & 3rd. figures.
Lycocelis carina. Ehr.
Vnr. B. Stillcidiorum. Rd.

[Diagram with annotations]
Hamilia crythraeusia. Hessian.

Drawn from a type communicated by Mr. D. Turner (S).
Pamela feruginea Auds.
Var. B. feltoe, Sch.
For remaining drawings see Appendix.
Pteleosaria mutabilis. Arch.
Amblyoma rubiginosa. Brunt.
Var s. complexa. Bee.
Amphitoma hypomorum. Dick.

Drawn from perfectly recent specimen coll. at Hogkill in w. Greenly, Cleveland, Dec 15, 1873.

3 mm long

1/2 - broad, 1/4 - body.
Amphidroma lanuginosa. Rch.
Hematotoma cocoica. Persoon.
Drawn from authentic specimens communicated by the Rev. W. A. Keightley, Lucifails near Herschel.
Satellaria fuscella. Hepp.


1.22 mm long
2 = 1/2, mid head 1/2, body...
Satellaria Khabenskii, Hepp. II
Variety with large spores.

Drawn from specimens collected near St. Kilda. Oct. 1857. RM.
Patellaria Rhabenshurtii. Hepp!!

Phallus herschelii. Hepp.

13 or 14 mm long.
7.5 mm broad.
M. J. Beag. 1904.
The above drawn from specimen collected in Ben Lawers, Perthshire, one of the original English Botany stations. District from Pleopsidium fusc. luteum.
Drawn without the use of any Chemical reagent.

2 x 5 mm long.
2 mm broad 1/36 in round.

Drawn without the use of any Chemical reagent.

Drawn after being exposed to the action of a large number of phosphorescent instruments.

For remainder of drawings see fig. enclosed.
Physicia / Lecanidæ. 

P. Lecanidæ.

Generated without the use of any chemical agent.

Drawn from Devonshire Spinæus in herb. 1852. Edwards.
For the remaining drawings see Appendix.
Physcia lindbergiata. Schreb.

Fig. 1. Revers. M. P. 3. 5 mm. long. 1.5 mm. broad. 1:5. Henry.

Fig. 2. Drawn after the Venteria 4.5 mm. long. 3.5 mm. mother.
Physcia subcorticata, Schott.
Var B. angustata, Hoffm.

Drawn from specimens similarly dissected by Sir J. Chetham, F.R.S., etc.

Drawn from specimens obtained by the action of Nitric Acid.
Physcia obtusa. Steh.
Von A. nortcularis. Neck.

Description:
Spores four spores square & the action of
Phytophthora of Farn.

Spores each three:
3.5 to 3 mm long.
1 branch.

Obtain from a tree mostly developed by the action
of Phytophthora of Farn. Noting that the appearance of the spore to the
abnormal agniss of the another of the two kinds of
the "Perennia."
Physica Ascura. Phil.
Var. adscendent. Heter.

- 23 February
- 20th March

Flowers without the use of any chemical liquor, but politely in his pot to show the colors. Three flowers by Mr. Scour's instruction known from specimens of the Parmelia arctica (L.) L. Koch. Milled Smith's Eng. 1844.
Physicium Ascura, Stark
Var. S. adglutinata, Hinkel.
Physica Stadium, Fues.
Var. A. aipolia. Shuk.

Stain solution
2% time
1 emlease from 7-1-18

Can use without the use of any decolorizing agent.

Stain solution
1 emlease from the cadaver after 8. M. mo.
30-41 after being treated 5k of calcium gluconate.
Physica Stirravi (Ann.) Fies.
Vor y. abseindens. Floto.
Physical case...  Diffm.

Var A.

Reason without the use of any chemical agent.

202.5 cm long

1 = 2.3611

18.5 cm long
Physica cesia. Hoffm.
Var. a. atuncella. Schaur.
Harmelia cusia Raffn
Var y. adscendens. Retew.

Drawn from the mounted Wimiscumee
26 March 1879. No. 547.
Figure from Nebraska. Light green collection
by W. J. Mar. 1879.

[Diagram with three labeled circles]

Fig 1

From a specimen, not exposed to the post-mortem action of the digestive fluids.

Fig 2

Var a . . . . . .
Physcia epipodes, Sch.

Var. B. octospora, Manigay.

Semi-oviform eight mm in size.

Known from the east coast, Massachusetts, New Hampshire, Maine, and the Gulf Coast.

Var. y. eschholzii, C. E. Scovell.
Lichen als Pflanze. Wahl.
Uocularia sosposa. Line.
Vnr. A. vulgaris. Schier!!

[Drawings of insects or eggs, with accompanying text in German]

Drawn from the authentic type in Schaeffer's L. Kellet.
Ins. n. 292.!! Subspecies U. sosposa var. Hochstetteri.

Drawn from Schaeffer's L. Kellet. Ins. n. 292.!! Supra.
Myriopoda, rauf. viersams. Tief.

Var d. . . . . . . . . . . . . . . . . . . . .
Unsererseits auf viereins. Sagt
Vor Dr. Castlerea. Scher !!
Lynne skriva, riklokaler. Taylor
Kör 50. Indina. Wahl.

...
Myciophora euf. visceous. Taylor
Var of calicula. Notes.
Myriophyllum taxigynum. Ach.

Drawn from an original specimen in Karl W. Babcock's Collection by F. B. Hapgood on White Island, Lake Superior, Michigan.

Fruit in epinonan. 300 degrees.

Grown from wind grown seeds collected at Saint Helen, Cleveland, Erie County.
Mycyncladus rufescens. Binn.
Patellaria pulchra, Leb.
Diplomma peciea. Sch.

Drawn from a specimen communicated by the Rev. H. I. Leighten and now in "Eumora peciea. Sch."

Drawn from the same specimen as the above.
Sturnus microphylla, Swartz.

Larval wing
2-3 mm from 1/8-1/4" of body.

Larvae from the authenticated species and
Johannes Köhler, Helvet. Nov. 9/1611
Physicia ciliata. lmm.  Appendix.

Drawn from three specimina, illustrated by Dr. J. C. Beale, showing the commencement of spermiation.

Specimen 1

Specimen 2

Specimen 3

Drawn from various specimina of Physicia ciliata, showing the commencement of spermiation.
Physcia aquila. Ack. Appendix.

Diagram showing various stages of Physcia aquila. The diagrams are labeled as follows:

Fig. 3: 38 by 1.5 mm
Fig. 4: 12 by 1.5 mm
Fig. 5: 3 by 1.5 mm
Fig. 6: 1 by 1.5 mm
Fig. 7: 3 by 0.5 mm
Fig. 8: 1 by 0.5 mm
Fig. 9: 2 by 0.5 mm
Fig. 10: 5 by 2.5 mm
Fig. 11: 2 by 1.5 mm
Fig. 12: 2 by 1.5 mm
Fig. 13: 2 by 2.5 mm

Diagrams show sections from different parts of Physcia aquila, illustrating the variations in size and shape.
Verrucosa polymorpha, nobis
Var B. glomerata, Aeh.
Appendix.

Fig 4.

Show previous to cleavage of the Blastema.

Show cleavage of the Blastema into the future Sporides.