

Berkeley, M. J. and M. A. Curtis, 1869.  
Fungi Cubenses. Part II. *Ascomycetes*.

Bhushan  
Sheet 18

374

REV. M. J. BERKELEY ON CUBAN FUNGI.

Some of the perithecia contain minute allantoid spermata. The specimens are young; so that the sporidia will not come out of the asci, and therefore cannot be measured accurately.

735. *A. PICEA*, B. & C. Peritheciis seminiformibus nigris in stromate parvo orbiculari sitis; ascis clavatis; sporidiis biserialibus oblongis angustis uniseptatis. (411.)

On the upper surface of leaves. Sporidia  $\cdot 0005$ – $\cdot 0004$  inch long,  $\cdot 00015$  wide.

736. *A. BULLATA*, B. & C. Stromate orbiculari tenuissimo; peritheciis margine laciniatis radiato-cellulosis; ascis cylindricis; sporidiis biserialibus oblongis subfusiformibus uniseptatis. (750.)

On leaves of *Peperomia*, seated on brown spots of diseased tissue. Sporidia  $\cdot 0006$  inch long,  $\cdot 0001$  broad.

737. *A. EXAMINANS*, B. & C. Peritheciis minutissimis in soros nigros precipue nervicolas congregatis, floccis brevibus bifidis apicibus obtusis cinctis; ascis brevibus clavatis; sporidiis ellipticis uniseptatis minoribus. (788.)

On leaves. Stroma obsolete.

738. *A. SOLANICOLA*, B. & C. Stromate floccis repentibus; peritheciis globosis marginem versus e cellulis angustis flexuosis compactis; ascis lanceolatis; sporidiis biserialibus oblongis subfusiformibus hyalinis. (560.)

On leaves of *Solanum*. February.

739. *A. CONNATA*, B. & C. Peritheciis minutissimis cellulosis nec radiato-cellulosis, in soros minutos confluentibus, floccis brevibus parvissimis cinctis; sporidiis minutis oblongis uniseptatis. (487.)

On leaves of *Clusia*. The specks at first sight seem simple, but under a higher magnifier they are composed of many confluent perithecia: sporidia  $\cdot 0002$  inch long,  $\cdot 000074$  wide, brown.

#### MICROTHYRIUM, Mont.

740. *MICROTHYRIUM CUBENSE*, B. & C. Peritheciis planis suborbicularibus sparsis hic illic confluentibus atro-fuscis; ascis brevibus late clavatis; sporidiis biserialibus ovatis hyalinis. (440.)

On Congo bean. Sporidia  $\cdot 0005$  inch long,  $\cdot 00025$  wide.

741. *M. ALBIGRANA*, B. & C. Peritheciis minutissimis radiato-cellulosis, e strato candido oriundis. (750.)

On leaves of *Peperomia*. May. Growing on the white margin of brown spots of diseased tissue.

① *Phycomyces*, *Coniomycetes*, *Hymenomycetes*, and  
*Ascomycetes*. J. Linn. Soc. London. 10: 371–376

MICROPELTIS, *Mont.*

742. MICROPELTIS APPLANATA, *Mont.*! *Cub.* p. 325, tab. 12. f. 6.  
(410, 530, 546, 556, in part.)  
On leaves of trees and ferns. *Hab.* Ceylon, Guiana, Caripi,  
Java. Sporidia fusiform, curved, multiseptate, .002 inch long.  
The single ostiolum is occasionally rimose.

743. M. MARGINATA, *Mont.*! *Syll.* p. 245. (439, 568, 569.)  
On leaves and Palms. *Hab.* Cayenne.

744. M. PUNCTIFORMIS, *B. & C.* Minuta, subconica, atrofusca, rugo-  
siuscula; sporidiis oblongis uniseptatis. (395.)  
On leaves. Perithecia brown; cells minute; sporidia .0006  
inch long, .0001 wide, hyaline.

745. M. ERUMPENS, *B. & C.* Peritheciis gregariis late conicis epi-  
dermidem stellatim ruptam nigrescentem ostiolo obtuso perforan-  
tibus; ascis longis linearibus; sporidiis uniserialibus fusiformibus  
uniseptatis apud commissuram contractis. (474, 556.)  
On Palm-petioles. February. Sporidia .0011 inch long, .0003-  
.0004 wide. At first sight somewhat resembling *Pemphidium ni-*  
*tidum*, *Mont.*, but in reality very different. In that species we  
find the sporidia biseriata, and of a different character.

## SPHÆRIACEI.

CORDICEPS, *Fr. Lk.*

746. CORDICEPS SPHINGUM, *B. & C.*—*Torrubia*, *Tul. Sel. Fung.*  
*Carp.* iii. p. 12.—*Isaria*, *Schwein.* (433, 731, 732.)  
On dead moths. *Hab.* United States, Europe.

747. C. MONTAGNEI, *B. & C.*—*Isaria gigantea*, *Mont. Cub.* p. 309.  
On the body and feet of *Mygale cubana*, Walker. At present  
not observed in the perfect form.

748. C. FLAVELLA, *B. & C.* Gregaria, flavella; stipitibus filiformi-  
bus aequalibus pellucidis; capitulis globosis; peritheciis prominulis.  
(519.)

Among leaves on wood, growing apparently on some *Sclerotium*.  
December. About 1 inch high; stem filiform; head 1 line thick;  
asci slender. Allied to *C. myrmecophila*, Cesati.

There is an Ergot, no. 476, on *Setaria*; but of what *Cordiceps*  
it is a condition we have no information.

749. C. CALOCEROIDES, *B. & C.* Stipite elongato radicante furcato  
nitide rubro glabro; capitulo cylindrico subacuto elongato; peri-  
theeciis immersis, ostioliis prominiulis. (309.)

On the ground. Nearly 5 inches high; head 2 inches long; not a line thick.

750. *C. MILITARIS*, Fr. *Lk. Handb.* iii. p. 347. (582.)

On dead insects. *Hab.* Upper Carolina, Europe.

751. *C. SPHECOPHILA*, B. & C. — *Torrubia sphecophila*, *Tul. l. c.* p. 16. (558, 520, 521.)

On wasps. *Hab.* Jamaica. No. 520 is apparently a very small variety, with a delicate filiform stem and fusiform head. We have not, however, seen perfect specimens.

HYPOCREA, Fr.

752. *HYPOCREA SACCHARINA*, B. & C. Stromate extus farinaceo, margine primum connivente demum aperto brevissime cylindrico; peritheciis apice primum depressis demum papillatis. (805.)

On dead wood. April. Gregarious, about 1 line across.

753. *H. CERVINA*, B. & C. Stromate irregulari suborbiculari plano, margine obtuso libero cervino subtomentoso, intus subconcolori; peritheciis superficialibus, ostioliis quandoque elongatis cylindricis; sporidiis subglobosis octonis. (773.)

On dead wood. Sporidia  $\cdot 000014$  inch in diameter. Stroma 2 lines across.

754. *H. LETIOR*, B. & C. Stromate orbiculari sublobato adnato lacte cervino; peritheciis immersis, ostioliis prominulis nigris; sporidiis subglobosis 16. (518.)

On dead wood. Sporidia  $\cdot 0002$  inch in diameter, sixteen in each ascus. Stroma  $1-1\frac{1}{2}$  line across. Closely allied to the last.

755. *H. INSIGNIS*, B. & C. Stromate pezizaeformi subhemisphaerico e luteo cervino marginato, intus albo; disco plano, ostioliis minimis punctato; contextu celluloso. (516.)

On dead wood. Stroma  $\frac{1}{4}-\frac{1}{2}$  inch across. Sporidia immature.

756. *H. VIRIDANS*, B. & C. Parva, pulvinata, e pallido-griseo viridis; ascis clavatis; sporidiis fusiformibus; ostioliis latitantibus. (450.)

On leaves of *Gesneria*. Scarcely a line across, composed of thick cylindrical branched gelatinous threads. Sporidia biserial, fusiform, narrow,  $\cdot 00057$  inch long.

757. *H. MACULÆFORMIS*, B. & C. Tenuis, umbrina, irregularis, ostioliis brunneolis notata; peritheciis elongatis immersis. (767.)

On a hard, lemon-coloured, fleshy *Polyporus*, which is probably much altered by the parasite. Forming thin map-like spots.

Sporidia .0004 inch long. No. 513 is probably the same thing with the parasite undeveloped.

758. *H. ATRAMENTOSA*, B. & C. Effusa, tenuis, elongata, atra, demum rugosa; peritheciis globosis ostiolisque immersis. (419.)

On leaves of grasses. *Hab.* Alabama. On *Andropogon*, no. 4018. Forming a thin stratum on the underside of the leaves. Allied to *H. semiamplexa*, B., a very similar species from Surinam on *Cyperaceæ*, with filiform sporidia (*Sphæria Cyperacearum*, Schwein. ! herb.).

759. *H. CITRINA*, Mont. ! *Cub.* p. 336. (568.)

On dead wood, *Polyperi*, leaves, &c. *Hab.* Tasmania, Car. Inf., Europe.

*SPHÆROSTILBE*, Tul.

760. *SPHÆROSTILBE GRACILIPES*, Tul. *Sel. Fung. Carp.* i. p. 130. (734.)

On logs in woods. September. *Hab.* Europe.

761. *S. WRIGHTII*, B. & C. Soris orbicularibus, columellis striatis compressis nigris, capitulo carneo; sporis minutissimis; peritheciis confluentibus irregularibus; sporidiis oblongo-ellipticis. (801.)

On dead Palm-stems. January. Spores .0001 inch long; sporidia .0005 long, .00025 wide, uniseptate. Spores just half the length of those in the last species, while the sporidia are longer, and not contracted at the commissure.

762. *S. NITIDA*, B. & C. Columella recta gracili lateritia; capitulo globoso hyalino ruguloso pallido. (739.)

On dead leaves and stems, apparently of some Orchid. December. We have not at present seen perithecia; but it must be congeneric with the following species.

763. *S. CINNABARINA*, Tul. *Sel. Fung. Carp.* i. p. 130.—*Stilbum cinu-*  
*barinum*, Mont. ! *Cub.* p. 308. (499, 502, 550, 735, 740.)

On dead sticks. December. *Hab.* Ceylon, Louisiana, Car. Inf. No. 502 has the columella unusually fleshy and transparent.

764. *S. LATERITIA*, B. & C.—*Stilbum lateritium*, B. *Lond. Journ.* 1843, p. 642. (425.)

On dead sticks. *Hab.* E. Nepal, Ceylon, Hindustan, New Zealand, C. B. S., Car. Inf., Brazil. Columella simple in the Cuban specimens.

*NECTRIA*, Fr.

765. *NECTRIA LATICOLOR*, B. & C. Cæspitosa, coccinea, ovata, apice

obtusum, demum collapsa; sporidiis ellipticis uniseptatis. (458, 542, 555.)

On trees amongst *Hepaticæ*. February. Sporidia 0006-00057 inch long.

766. *N. SACCHARINA*, B. & C. Cæspitosa vel subcongesta, saccharinorufa, subhyalina, globosa; sporidiis subfusiformibus demum uniseptatis. (341, 522, 553.)

On dead twigs of Coffee and fallen leaves. Sporidia 0005-0004 inch long.

767. *N. DIPLOA*, B. & C. Cæspitosa; peritheciis aurantiacis furfuraceis; sporidiis biseriatis fusiformibus 2-4-nucleatis. (606.)

On bark. *Hab. Car. Inf.*, no. 4029. Sporidia 0012-001 inch long, 00035 wide.

768. *N. PITYRODES*, Mont. = *Sphaeria pityrodes*, Mont. *Cub.* p. 333. On bark.

769. *N. PERPUSILLA*, Mont. *Cub.* p. 335. (592, 593, 301.)

On dead *Xylaria*. *Hab. Europe.*

770. *N. SUBICULOSA*, B. & C. Peritheciis minutis pallide aurantiacis ovatis e strato tenui byssoideo aureo oriundis; sporidiis oblongis angustis uniseptatis. (539.)

On dead *Polyperi*. Sporidia 0006 inch long, 0002 wide. The sporidia in *Nectria aurea* (Grev. tab. 47) are much broader.

771. *N. MACROSTOMA*, B. & C. Carneæ; peritheciis tomento pallido inter se compactis, ostioli demum elongatis. (517.)

On dead bark. Forming little convex groups consisting of from five to twenty perithecia bound together by delicate down; more rarely scattered; ostiola elongated, thicker at the base; sporidia uniseptate, subelliptic, 0004 long. All the ostiola are not elongated at the same time, except when there are very few in a group.

772. *N. LAGENÆFORMIS*, B. & C. Peritheciis sparsis albidis, basi opacis, sursum hyalinis, lagenæformibus, collo elongato; sporis longis clavatis multiseptatis. (629.)

On dead bark. Spores 002 inch long. The ascigerous form of this species is unknown. The external characters are so remarkable that it cannot be confounded with any other. It can scarcely be a form of *N. hirta*, Blox., which is remarkable for its long multiseptate sporidia. *N. crustulina*, B. & Rav., like this is known only in its sporiferous state.

773. *N. SUPFULTA*, B. & C. E pallido rufescens; peritheciis globo-

sis dein collapsis, ostiolo papilliformi, floccis brevibus albidis quandoque fasciculatis suffultis; sporidiis oblongo-ellipticis demum uniseptatis. (632.)

Apparently on Palm-petioles. Sporidia  $\cdot 0005$  inch long.

774. *N. COCCINEA*, Fr. *Summ.*—*Sphaeria coccinea*, Pers. *Syn.* p. 49. (549.)

On dead branches in woods. July. *Hab.* Tasmania, United States, Europe, Juan Fernandez, Java.

775. *N. SANGUINEA*, Fr. *Summ.*—*Sphaeria sanguinea*, Sibth. *Fl. Ox.* p. 404.

On dead branches in woods with the last. July. *Hab.* Guiana, United States, Europe, Algeria.

776. *N. FOLIICOLA*, B. & C. Parva, brunneola, furfuracea, pezizoidea, collapsa; ascis oblongis; sporidiis biserialibus lanecolatis uniseptatis. (752.)

Apparently on leaves of *Musa*. Sporidia  $\cdot 001$  inch long,  $\cdot 00016$  wide.

777. *N. LEIGHTONI*, B. Sparsa, minuta; peritheciis ovatis flavidis vel lurido-coccineis; sporidiis subcymbiformibus triseptatis hyalinis. (641.)

On dead trees. June. *Hab.* Europe. Mr. Leighton's specimens are from Yorkshire, on Larch. Sporidia  $\cdot 001$  inch long.

#### XYLARIA, Grev., Schrank.

778. *XYLARIA POLYMORPHA*, Grev. t. 237. Hypoxylon polymorphum, *Mont. Cub.* p. 352. (298, 300, 305, 508, 587, 598, 600.)

On dead wood. *Hab.* Sikhim, Ceylon, Borneo, Australia, Tasmania, Brazil, Venezuela, Guiana, United States, Europe.

779. *X. DIGITATA*, Grev. *Fl. Ed.* p. 356. (301.)

On dead wood. *Hab.* Texas, United States, Europe.

780. *X. RADICATA*, B. & C.—*Sphaeria radicata*, Schwein. ! *herb.* (578.)  
Cylindrica, simplex vel e radice longa tomentosa subcaespitosa oriunda, ex atropurpureo nigra, rugosa, leviter rimosa, ostiolis prominulis papillata; stipite brevissimo.

On dead wood. *Hab.* Schweinitz's specimens have no locality indicated, but they are probably from Surinam. His *Sphaeria cornu-damae*, which somewhat resembles this, has narrow curved sporidia,  $\cdot 001$ – $\cdot 0006$  inch long; in this species they are cymbiform,  $\cdot 0008$ – $\cdot 0006$  inch long. Root 1–2 inches long, generally about the same length as the head.

781. *X. CONOCEPHALA*, B. & C. Maxima, caespitosa, e basi obtusa

Exam  
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