

## Fungi of Haiti

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The Republic of Haiti comprises the western third of Hispaniola, a tropical island of the West Indies shared with the Dominican Republic. Bordered on the East by the Dominican Republic and bounded on the North and South by the Atlantic Ocean and Caribbean Sea, respectively, Haiti consists largely of two main peninsulas jutting West into the Windward Passage. Four-fifths of its 10,700 square miles is mountainous and elevations extend from sea level to almost 8,800 feet. It has a normal tropical climate with little seasonal change and temperatures in the lowlands range between 70° and 85° F.

The topography and climate of Haiti are conducive to the occurrence of a wide variety of fungi, but its mycoflora is far less well known than that of its neighbor, the Dominican Republic. Pierre-Louis (50) in 1955 published a brief manual covering the important diseases of economic plants of Haiti, a treatment that included approximately 70 fungus pathogens. More recently, Ciferri (15) included report of 93 Haitian fungi in his comprehensive volume listing more than 2,000 Dominican fungi. Although these two works overlap somewhat, they have heretofore comprised the most extensive listings available for Haitian fungi.

While it is true that fungi know no political boundaries, it is also true that an enumeration of the fungi known to occur in a particular country can be very useful to mycologists, plant pathologists and other workers interested in plant diseases and mycofloristics. Also, the fungi known from any region depend largely upon the specific interests of the collectors and work done even in adjacent countries can contribute equally to a more comprehensive knowledge of the overall mycoflora. The present account of Haitian fungi, for example, lists 51 Myxomycetes and Phycomycetes, 32 of which were not reported by Ciferri (15) for either the Dominican Republic or Haiti. As might be expected, only 9 of the 51 were treated by Pierre-Louis (50) as economic pathogens.

The present work was begun to bring together some of the scattered

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reports of Haitian fungi and to report the unpublished Haitian specimens present in our National Fungus Collections at Beltsville. For many years the National Fungus Collections staff has had a special interest in the fungi of countries of Tropical America and has maintained geographical records of acquisitions from these countries. These records were utilized by Cifferi (15) for his comprehensive Dominican account, but 48 Haitian species now present in the herbarium seem unreported. These and 16 other fungi identified only to genus are indicated as new records for Haiti by marking each with an asterisk (\*). New host records are included but are not specifically pointed out. The total number of Haitian fungi enumerated here is more than 375 and includes the approximately 180 species represented in the National Fungus Collections (designated "BPI") and numerous reports found in the literature. In addition to the works of Cifferi (15) and Pierre-Louis (50), particularly useful references for the present account were the distribution maps published by the Commonwealth Mycological Institute (17) and the Plant Quarantine interception lists of the U. S. Department of Agriculture (60).

Since both herbarium specimens and literature reports included many that employed fungus names not currently acceptable, an attempt has been made to modernize the nomenclature used for these fungi. No attempt has been made, however, to list complete synonymy and no new taxa have been employed. The original publications for species' names are cited, together with such synonyms as seemed needed or appropriate. Species are arranged alphabetically within the major Classes of fungi with the one exception of the Uredinales which, for logistic reasons, are listed alphabetically within the Order at the beginning of the Class Basidiomycetes. Available collection data are included as feasible and sources of previous reports utilized are given for each entry by numbers in parentheses that refer to corresponding numbers of the "Literature Cited" section which follows the plant and insect hosts lists.

#### Mycomycetes

*Arcyria cinerea* (Bull.) Pers., Syn. Meth. Fung., p. 184. 1801. Concot, 21 III, 1938, leg. O. F. Cook, det. J. A. Stevenson, BPI, (15), (20).

*A. incarnata* (Pers.) Pers., Obs. Myc. 1: 58. 1896. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (No. 1687). (20).

*Ceratiomyxa fruticulosa* (Müll.) MacBr., N. Amer. Slime-Moulds, p. 18. 1899. Vic. Savane-Zombie, on decaying log, 8 VI, 1955, leg. & det. M. L. Farr (No. 1683). (20).

*Comatricha elegans* (Racib.) List., Guide Brit. Mycet. ed. 3. p. 31. 1909. Vic. Savane-Zombie, on decaying log, 8 VI, 1955, leg. & det. M. L. Farr (No. 1674). (20).

\**Cribraria tenella* Schrad., Nov. Gen. Pl., p. 6. 1797. On *Spondias* sp., 26 VI, 1927, leg. O. F. Cook, det. M. L. Farr. BPI.

*Diderma hemisphaericum* (Bull.) Hornem., Fl. Dan. 33: 13. 1829. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (No. 1693). (20).

*Didymium clavus* (Alb. & Schw.) Rab., Deutsch. Krypt.-Fl. 1: 280. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr. (20).

*D. ? difforme* (Pers.) S. F. Gray, Nat. Arr. Brit. Pl. 1: 571. 1821. Vic. Savane-Zombie, on decaying log in pine forest, 8 VI, 1955, leg. & det. M. L. Farr (No. 1684). (20).

*D. iridis* (Ditm.) Fr., Syst. Myc. 3: 120. 1829. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (Nos. 1694, 1698). (20).

*D. nigripes* (Lk.) Fr., Syst. Myc. 3: 119. 1829. Vic. Savane-Zombie, on decaying log, 8 VI, 1955, leg. & det. M. L. Farr (No. 1678). (20).

*D. squamulosum* (Alb. & Schw.) Fr., Symb. Gast., p. 19. 1818. Agric. College, Damiens; vic. Savane-Zombie. On decaying debris & log, 6—8, VI, 1955, leg. & det. M. L. Farr (Nos. 1682, 1686). (20).

*Lamproderma arcyrionema* Rost., Monogr., p. 208. 1874. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (Nos. 1691, 1697). (20).

*L. scintillans* (Berk. & Br.) Morg., Jour. Cincinnati Soc. Nat. Hist. 16: 131. 1894. Vic. Savane-Zombie, on decaying log in pine forest, 8 VI, 1955, leg. & det. M. L. Farr (No. 1676). (20).

\**Physarum* sp., Thor, on rotten trunk of *Carica* sp., 25 VIII, 1927, leg. O. F. Cook. BPI.

*P. cinereum* (Batsch) Pers., Neues Mag. Bot. 1: 89. 1794. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (No. 1694). (20).

*P. compressum* Alb. & Schw., Consp. Fung., p. 97. 1805. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (No. 1688). (20).

*P. nicaraguense* MacBr., Bull. Nat. Hist. Univ. Iowa 2: 382. 1893. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (No. 1689). (20).

*P. pusillum* (Berk. & Curt.) G. List. in List., Mycet. ed. 2, p. 64. 1911. Thor; Agric. College, Damiens. On decaying debris, 25 VIII, 1927, 6 VI, 1955, leg. O. F. Cook, M. L. Farr, det. M. L. Farr. BPI, (20).

\**P. superbum* Hagelst., Mycologia 32: 385. 1940. Font de Negre, 27 VI, 1927, leg. O. F. Cook, det. M. L. Farr.

*Stemonitis axifera* (Bull.) MacBr., N. Amer. Slime-Moulds, p. 120. 1899. Agric. College, Damiens, on decaying debris, 6 VI, 1955, leg. & det. M. L. Farr (No. 1695). (20).

### Phycomycetes

*Albugo ipomoeae-panduranae* (Schw.) Swing, Jour. Myc. 7: 112. 1892. On *Ipomoea batatas* (L.) Lam. (50).

*Albugo platensis* (Speg.) Swing, Jour. Myc. 7: 113. 1892. Port-au-Prince, on *Commicarpus scandens* Standley, XI, 1918, leg. J. N. Rose 23981, det. W. W. Diehl. BPI. Also (15).

*Allomyces anomalus* Emerson, Lloydia 4: 133. 1941. Font Parisien, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott; Central Haiti, isol. ex water from the Coupe à l'Inde and Estère Rivers, 15 XII, 1939, leg. A. Haspil, det. F. T. Wolf. (52), (63).

*A. arbuscula* Butl., Ann. Bot. London 25: 1027. 1911. Northern, Southern and Western Haiti, isol. ex water from the Guinte, Cavaillon and Momanee Rivers, XII, 1939, leg. A. Haspil, det. F. T. Wolf. (63).

*Aphanomyces laevis* De By., Jahrb. wiss. Bot. 2: 179. 1860. Furcy, isol. ex laterite soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*Brevilegnia declina* Harvey, Jour. Elisha Mitchell Sci. Soc. 42: 243. 1927. Refuge, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*B. linearis* Coker & Braxton, in Coker, Jour. Elisha Mitchell Sci. Soc. 42: 214. 1927. Refuge, isol. ex laterite soil of pine forest, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*Cladochytrium replicatum* Karling, Amer. Jour. Bot. 18: 538. 1931. Cabaret, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*Dictyuchus* sp. Poste Terre Rouge, isol. H 8 ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott as near *D. monosporus* Leitgeb. but possibly a new species. (52).

*Haplosporangium decipiens* Thaxt., Bot. Gaz. 58: 364. 1914. Type locality: Haiti, on dung of *Selenodon paradoxus*. Quoted also by Ciferri (15).

*Leptolegniella keratinophilum* Huneycutt, Jour. Elisha Mitchell Sci. Soc. 68: 110. 1952. Cul-de-Sac, Furcy, and Poste Terre Rouge, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*Peronospora parasitica* ([Pers.] Fr.) Fr., Summa Veg. Scand., p. 493. 1849. Mont des Commissaires, Kenscoff, rare in the plains, on *Brassica oleracea* L. (50).

*Phytophthora cinnamomi* Rands, Meded. Inst. Plantenz. Buitenz. 54: 41. 1922. On *Ananas comosus* (L.) Merr. Uncertain identification reported by (40) as "heart rot." Included by (17, map 302, 1955) but not (17, map 302, revised to 1963).

*P. citrophthora* (Sm. & Sm.) Leonian, Amer. Jour. Bot. 12: 445. 1925. On *Citrus* sp. (50).

*P. infestans* (Mont.) D By., Jour. Roy. Agric. Soc. II 12: 240. 1876. On *Lycopersicon esculentum* Mill., *Solanum tuberosum* L. (50).

*P. palmivora* (Butl.) Butl., Sci. Rep. Agric. Res. Inst. Pusa 1918—19, p. 82. 1919. (Syn. *P. faberi* Maubl.). On *Theobroma cacao* L. (48), (50).

*P. parasitica* Dast., Mem. Dep. Agric. India Bot. 5 (4): 226. 1913. [= *P. nicotianae* B. de Haan var. *parasitica* (Dast.) Waterh., Commonw. Myc. Inst. Myc. Paper 92, p. 14. 1963]. On *Citrus* sp. (50).

*Plasmopara viticola* (Berk. & Curt.) Berl. & de T. in Sacc., Syll. Fung. 7: 239. 1888. On *Vitis vinifera* L. (50).

*Pseudoperonospora cubensis* (Berk. & Curt.) Rostow, Ann. Inst. Agron. Mosc. 9: 47. 1903. (Syn. *Peronoplasmopara cubensis* Clint.). On *Cucumis melo* L. (50).

*Pythium* sp. On *Citrullus vulgaris* Schrad. (50).

*P. afertile* Kanouse & T. Humph., Pap. Mich. Acad. Sci. Arts Lett. 8: 137. 1927. Cabaret, Damiens, and Refuge, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. catenulatum* Matthews, Stud. Gen. Pythium, p. 47. 1931. Poste Terre Rouge, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. debaryanum* Hesse, Inaugr. Dissert., Halle. 1874. General distribution, isol. ex soil from 9 diff. sites, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. intermedium* D By., Bot. Zeit. 39: 553—558. 1881. Isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. mamillatum* Meurs, Wortelrot Verrorz. Schim. Ges. *Pythium* Pringsh. *Aphanomyces* D By. 1928. Font Parisien, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. ultimum* Trow, Ann. Bot. 15: 269—312. 1901. Cul-de-Sac, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. undulatum* Petersen, Bot. Tidssk. 29: 345—440. 1909. Isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*P. vexans*, D By., Jour. Bot. 14: 105—126. 1876. Cul-de-Sac, isol. ex soil, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*Rhizophlyctis rosea* (D By. & Wor.) Fisch., Rabenh. Krypt.-Fl. 1: 122, 1892. General distribution, isol. ex soil from approx. 20 sites, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*R.* spp. Forms indeterminable to species because of scanty material were isolated ex soil from 8 sites, summer, 1958, leg. K. W. King, det. W. W. Scott. (52).

*Rhizopus stolonifer* (Ehrenb. ex Fr.) Vuill., Rev. Mycol. 24: 54. 1902. (Syn. *R. nigricans* Ehrenb.). On *Capsicum annum* L., *Citrus aurantifolia* (Christm.) Swing. *Ipomoea batatas* (L.) Lam. (60, lists for 1931, 1930, 1929, respectively).

#### Ascomycetes

*Acrospermum maxoni* Farl., in Riddle, Mycologia 12: 179. 1920. On *Polypodium induens* Maxon. (15).

*Antennospora caribbea* Meyers, Mycologia 49: 503. 1957. Port-au-Prince, on *Pinus* sp. submerged off shore, May, 1954, leg. et det. S. P. Meyers. (38).

\**Anthostomella* sp. Morne Sel, on *Acrista* sp., 23 VIII, 1924, leg. O. F. C o o k. BPI.

*Cantharomyces haytiensis* Thaxt., Mem. Amer. Acad. Arts Sci. 16 (1): 23. 1931. Diquini, on the elytra and head of the insect *Trogophloeus fulvipes* Er., leg. Mann No. 2764, det. et descr. as n. sp. R. T h a x t e r (l. c.). Listed by (15).

*Capnodium* sp. General distribution, but most prevalent in the Bion region of Northwest Haiti, on *Coffea arabica* L. (50).

*C. citri* Berk. & Desm., Jour. Roy. Hort. Soc. 4: 243. 1849. On *Citrus* spp. (50).

\**Caudella psidii* Ryan, Mycologia 16: 179. 1924. Limbe, on *Psidium guajava* L., 4 VII, 1931, leg. M. Kisiuk & C. E. Cooley, det. J. A. S t e v e n s o n. BPI.

*Ceratocystis fimbriata* Ell. & Halst., New Jersey Agric. Exp. Sta. Bull. 76: 14. 1890. [Syn. *Ceratostomella fimbriata* (Ell. & Halst.) J. A. Elliott]. General distribution, on *Ipomoea batatas* (L.) Lam. (50), on *Cocos*, *Hevea*, *Ipomoea*, *Theobroma cacao* L. 1959. (17, map no. 91, revised to 1959).

*C. paradoxa* (Dade) C. Moreau, Rev. Mycol. Suppl. Colonial 17: 22. 1952. [Imperfect state = *Thielaviopsis paradoxa* (De Seyn.) Höhn.]. On *Ananas*, *Musa*, *Saccharum*. (17, map no. 142, revised to 1958).

\**Coccomyces limitatus* (Berk. & Curt.) Sacc., Sylloge Fung. 8: 747. 1889. St. Michel de l'Atalaye, on *Clusia rosea* Jacq., 15 XI, 1925, leg. E. C. L e o n a r d, det. W. W. D i e h l. BPI. Also (15).

\**Cookeina sulcipes* (Berk.) Kuntze, Rev. Gen. Pl. 2: 849. 1891. La Vallée, Tortue Island, on dead stem, 28 XII, 1928—91, 1929, leg. E. C. & G. M. L e o n a r d, det. E. K. C a s h. BPI, also (15, as *Trichoscypha sulcipes* Berk. apud Hook.).

*Diaporthe citri* Wolf, Jour. Agric. Res. 33: 625. 1926. On *Citrus* sp. 1947. (17, map. no. 126, 1966).

*D. vexans* Gratz: See *Phomopsis vexans* (Sacc. & Syd.) Harter.

*Didymella pinodes* (Berk. & Blox.) Petr., Ann. Myc. 22: 17—18. 1924. Cited in assoc. with *Ascochyta pisi* Lib. & *A. pinodella* L. K. Jones as causing necrosis of *Pisum sativum* L. (50).

*Dimerina jacquiniae* Garman, Mycologia 7: 337. 1915. (Syn. *D. monensis* F. L. Stevens). Gros Morne, Artibonite, on *Jacquinia linearis* Jacq., 18 II, 1926, leg. E. C. L e o n a r d, det. W. W. D i e h l. BPI. Also (15).

*Diplocarpon rosae* Wolf, Bot. Gaz. 54: 231. 1912. [Imperfect state: *Actinonema rosae* (Lib.) Fr., syn. *Marssonina rosae* (Lib. Lind.)] General distribution, on *Rosa* spp. (50) and (60, lists for 1934, 1935).

*Dothidella basirufa* (Berk. & Curt.) Sacc., Syll. Fung. 2: 631. 1883. Mission, Fonds Varettes, on *Asplenium dentatum* L., 17 IV—4 V, 1920, leg. E. C. Leonard, det. W. W. Diehl (?). BPI. Also (15).

*Elsinoë ampelina* Shear, Phytopath. 19: 677. 1929. [Imperfect state: *Sphaceloma ampelinum* D By., syn. *Gloeosporium ampelophagum* (Pass.) Sacc.]. General distribution, on *Vitis vinifera* L. (50).

*E. fawcettii* Bitanc. & Jenkins, Phytopath. 26: 395. 1936. (Imperfect stage: *Sphaceloma fawcettii* Jenkins). General distribution, on *Citrus* sp. (17, map no. 125, 1966), (50).

*E. mangiferae* Bitanc. & Jenkins, Arq. Inst. Biol. São Paulo 17: 218. 1946. General distribution, on *Mangifera indica* L. (60, lists for 1959, 1964, 1965, 1966).

*E. puertoricensis* Jenkins & Bitanc., Mycologia 38: 65. 1946. Vic. Port. de Paix, on *Randia parvifolia* Lam., 22 XII, 1928, leg. E. C. Leonard 1103 (PARATYPE), det. A. E. Jenkins. BPI, also (26).

*E. sacchari* Lo, Proc. Biol. Soc. Washington 77: 1. 1964. (Imperfect state: *Sphaceloma sacchari* Lo). On *Saccharum officinarum* L. (22).

\**Encoelia heteromera* (Mont.) Nannf. Trans. Brit. Myc. Soc. 23: 239. 1939 [Syn. *Dermatea aureo-tincta* Rehm, *Peziza heteromera* Mont., *Midotis heteromera* (Mont.) Sacc.] Bayeux, on *Funtumia elastica* Stapf, 18 I, 1925, leg. J. R. Weir, det. E. K. Cash. BPI.

*Erysiphe cichoracearum* DC. ex Mérat, Nouv. Fl. Env. Paris, ed 2, 1: 132. 1821. General distribution, on *Citrullus vulgaris* Schrad., *Cucumis melo* L., *Cucurbita moschata* Dcne., *Nicotiana tabacum* L. (15, as *Oidium tabaci* Thuem., since no perfect state was produced), (50).

*E. polygoni* DC. ex Mérat, Nouv. Fl. Env. Paris, ed. 2, 1: 132. 1821. General distribution, on *Phaseolus vulgaris* L., *Vigna sinensis* (Torner) Savi. (50).

*Eudarlucia australis* Speg., Fungi Paulist., p. 22, 1908. On rust on *Eleocharis* sp., IX, 1926, leg. R. Ciferri, det. ed distrib. F. Petrak, *Mycotheca generalis* 639. (49). [Erroneously listed for Haiti — should be Dominican Republic].

\**Eutypa* sp. Bayeux, on *Funtumia elastica* Stapf, 19 I, 1925, leg. J. R. Weir, det. C. L. Shear & W. W. Diehl. BPI.

*E. diantherae* (Lewis) Petr., Ann. Myc. 32: 356. 1934. (Syn. *Bagnisiella eutypoides* Ell. & Ev.). Vic. of Bassin-Blue, on *Dianthera americana* L., 25 IV, 1929, leg. E. C. & G. M. Leonard, det. W. W. Diehl. BPI. Also (15).

*Gibberella fujikuroi* (Saw.) Wr., Zeitschr. Parasitenk. 3: 514. 1931. (Conidial state: *Fusarium moniliforme* Sheldon). On *Saccharum officinarum* L. (17, map no. 102, 1963), (36).

*Glomerella cingulata* (Ston.) Spauld. & Schrenk, U. S. Dept. Agr. Bur. Pl. Ind. Bull. 44: 29. 1903. [Syn. *G. gossypii* Edgerton, *G. manihotis* (Sacc.) Petr.; conidial state = *Colletotrichum gloeosporioides* Penz.].

General distribution, on *Gossypium barbadense* L., *Manihot esculenta* Crantz, *M. glaziovii* Müll.-Argov. (15), (50).

*G. tucumanensis* (Speg.) Arx & Müller, Beitr. Krypt.-Fl. Schweiz 11 (1): 195. 1954. On *Saccharum officinarum* L. (17 map no. 186. 1962), (36).

*Godronia parasitica* Seaver, Mycologia 24: 353. 1932. Marmelade, on *Tetrazygia longicollis* Urb. & Cogn., 25 VIII, 1903, leg. G. V. N a s h (No. 793), det. F. J. S e a v e r. (54), (55), (56).

*Guignardia bidwellii* (Ell.) Viala & Rav., Bull. Soc. Myc. Fr. 8: 63. 1892. General distribution, on *Vitis vinifera* L. (50).

*G. clusiae* F. L. Stevens, Trans. Ill. Acad. Sci. 10: 183. 1917. Vic. St. Michel de l'Atalaya, Département du Nord, on *Clusia rosea* Jacq., 15 et 18, XI, 1925, leg. E. C. L e o n a r d (Nos. 7020, 7160), det. W. W. D i e h l. BPI, also (15).

\**G. manihoti* Sacc., Ann. Myc. 12: 304. 1914. Bayeux, on *Manihot glaziovii* Müll.-Argov., 18 I, 1925, leg. J. R. W e i r, det. V. K. C h a r l e s. BPI.

\**Hypoxyton nummularium* (Bull. ex Fr.) Fr. var. *pseudopachyloma* (Speg.) J. H. Miller, Monogr. World Spec. Hypoxyton, p. 125. 1961. (Syn. *H. pseudopachyloma* Speg.). Bayeux, on *Hevea brasiliensis* Müll.-Argov., 18 I, 1925, leg. J. R. W e i r, det. J. H. M i l l e r. BPI.

*H. rubiginosum* (Pers. ex Fr.) Fr., Summa Veg. Scand. p. 384. 1849. Bayeux, on *Hevea brasiliensis* Müll.-Argov., *Theobroma cacao* L., 18 I, 1925, leg. J. R. W e i r (Nos. 66624, 66625), det. W. W. D i e h l [redet. — at least as on *Hevea* — by J. H. M i l l e r as *H. rubiginosum* var. *tropica* J. H. Miller]. BPI, also (15), (39).

*H. stygium* (Lév.) Sacc., Syll. Fung. 1: 379. 1882. Bayeux, on *Castilla elastica* Cerv., *Mimusops globosa* Gaertn., 18 I, 1925, leg. J. R. W e i r (Nos. 66626, 66627, 66628), det. J. H. M i l l e r, BPI, also (39), and (15), *H. polyspermum* Mont. and *H. rubiginosum* (Pers. ex Fr.) Fr.

*Hysterostomina palmae* F. L. Stevens, Ill. Biol. Monogr. 8 (3): 10. 1923. St. Michel, on *Coccothrinax* sp., 21 VIII, 1924, leg. O. F. C o o k (No. 413), det. W. W. D i e h l. BPI, also (9), (15).

\**Irenopsis mölleriana* (Wint.) F. L. Stevens, Ann. Myc. 25: 437. 1927. Vic. Ennery, Dept. l'Artibonite, on *Sida urens* L., 20 I, 1926, leg. E. C. L e o n a r d (No. 903a), det. W. W. D i e h l. BPI.

*Isariopsis griseola* Sacc., Michelia 1: 273. 1878. Vallée de Jacmel, on *Phaseolus vulgaris* L., IV, 1954. (50).

\**Kretzschmaria clavus* (Fr.) Fr., Summa Veg. Scand. pt. 2. p. 409. 1849. Vic. Marmelade, Dept. du Nord, on tree, 19 XII, 1925, leg. E. C. L e o n a r d (No. 8132 b), det. W. W. D i e h l. BPI.

*Laboulbenia fuliginosa* Thaxt., Proc. Amer. Acad. Arts Sci. 50: 28. 1914. Ennery, on *Haltica jamaicensis* Fab., 1911, leg. W. M. M a n n, det. R. T h a x t e r (No. 2491). On *H. plebeia* Oliv., det. R. Thaxter (No. 1785). (15).



*L. idiostoma* Thaxt., Proc. Amer. Acad. Arts Sci. 50: 28. 1914. Ennery, on *Haltica jamaicensis* Fab., 1911, leg. W. M. Mann, det. R. Thaxter (No. 2491 TYPE). (15).

*Leptosphaeria sacchari* B. de Haan, Mededel. Proefst. Sulk W-Java, p. 25. 1892. La Mourriere, on *Saccharum officinarum* L., 22 III, 1922, leg. et det. V. K. Charles (No. 1500). BPI, also (57).

*Meliola* sp. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Clusia rosea* Jacq., 15 XI, 1925, leg. E. C. Leonard (No. 7020). BPI, also (15).

\**M. capsicola* F. L. Stevens, Ill. Biol. Mongr. 2: 509. 1916. Vic Pilate, Dept. du Nord, on *Capsicum frutescens* L., 10 II, 1926, leg. E. C. Leonard (No. 9664 a), det. J. A. Stevenson. BPI.

*M. lippiae* Maubl., Bull. Soc. Myc. France 19: 291. 1903. Vic. Port-au-Prince, on *Phyla nodiflora* (L.) Greene (Syn. *Lippia nodiflora* Michx.), 15—18 VII, 192(0?), leg. E. C. Leonard (No. 3436 b), det. J. A. Stevenson. BPI, also (15).

\**M. trichostroma* (Kunze) Toro, Jour. Dept. Agr. Univ. Porto Rico 36: 62. 1952. (Syn. *M. psidii* Fr.). Limbe, on *Psidium guajava* L., 4 VII, 1931, leg. M. Kislink & C. E. Cooley (No. 53), det. J. A. Stevenson. BPI.

*Mycosphaerella brassicicola* (Duby) Johans. ex Oud., Rev. Champ. Pays-Bas 2: 210. 1897. On *Brassica* spp. (17, map 189, 1960).

*M. citrullina* (C. O. Sm.) Gross., Tech. Bull. New York Agr. Exp. Rec. No. 9, p. 226. 1909. On *Cucumis sativus* L., *Sechium edule* (Jacq.) Sw. (60, lists for 1941, 1949).

\**M. clusiae* F. L. Stevens, Trans. Ill. Acad. Sci. 10: 181. 1917. St. Michel, on *Clusia* sp., 25 VIII, 1924, leg. O. F. Cook (No. 6415), det. W. W. Diehl. BPI.

*M. musicola* Leach, Trop. Agr. (Trinidad) 18: 92. 1941. (Imperfect state: *Cercospora musae* Zimm.). On *Musa* sp., *M. paradisiaca* L. subsp. *sapientum* (L.) Kuntze. (17, map 7, 1963), (50).

*M. pinodes* (Berk. & Blox.) Vest.: See *Didymella pinodes* (Berk. & Blox.) Petr.

*Myzotrichum thaxteri* Kuehn, Mycologia 47: 878. 1955. Cult. isol. ex *Solenodon* (opossum-shrew) dung by R. Thaxter, det. H. H. Kuehn. Type strain: NRRL 1714. (31).

*Naetrocymbe scoriadea* Bat. & Cif., Saccardo, No. 2, p. 164. 1963. Bayeux, near Port Magot, on *Jambosa jambos* (L.) Mill. (Syn. *Eugenia jambosa* L.), VIII, 1903, leg. G. V. Nash (No. 65), det. A. C. Batista & R. Ciferri. (8).

*Nectria diploa* Berk. & Curt., Jour. Linn. Soc. 10: 378. 1869. On *Citrus sinensis* (L.) Osbeck. (60, list for 1940).

*Nummularia broomeiana* (Berk. & Curt.) J. H. Miller, Mycologia 33: 77. 1941. (Syn. *Hypoxylon broomeianum* Berk. & Curt.). Bayeux, on *Hevea brasiliensis* Müll.-Argov., 18 I, 1925, leg. J. R. Weir, det.

J. H. Miller (Nos. 66621, 66622). BPI, and (15, reported as *N. anthracodes* (Fr.) Cke. and *N. cincta* Ferd. & Winge).

*Ophiobolus heveae* P. Henn., Hedwigia 43: 243. 1904. Bayeux, on *Hevea brasiliensis* Müll.-Argov., 1 XII, 1925, leg. (?) Jenkins, det. V. K. Charles (No. 72543). BPI, also (15).

*Phaeochaetia woronichinii* Cif. & Bat., Sydowia, Beih. 3: 77. 1962. (Syn. *Aithaloderma hederiae* (Pat.) Woron. var. *caucasicum* Woron.). Bayeux, near Port Margot, on *Jambosa jambos* (L.) Mill., VIII, 1903, leg. G. V. Nash (No. 65), det. R. Ciferri & A. C. Batista. (8).

\**Phaeosphaerella* sp., vic. Ennery, Dept. de l'Artibonite, on *Mimosa leonardii* Britt. & Rose, 22 I, 1926, leg. E. C. Leonard (No. 9105 a), det. W. W. Diehl. BPI.

*Phyllachora fusicarpa* Seaver in Britt. & Millsp., The Bahama Flora, p. 633. 1920. Vic. St. Michel de l'Atalaye, Dept. de Nord, on *Duranta erecta* L., 7 XII, 1925, leg. E. C. Leonard (No. 7871 a), det. W. W. Diehl. BPI, also (15). This specimen must also be the basis for Ciferri's (15) listing of "*P. brevicarpa* Seaver (Ubi?)" which seems not to exist.

*P. randiae* Rehm., Hedwigia 36: 371. 1897. (Syn. *Trabutia randiae* Theiss. & Syd.). On *Randia aculeata* L. (Syn. *R. mitis* L.). (53).

*P. verrucosa* Chardon, Jour. Dept. Agr. Puerto Rico 16: 186. 1932. Vic. Cap-Haitien, on *Eugenia maleolens* Poir. [Syn. *E. buxifolia* (Sw.) Willd.], 4 IX, 1903, leg. G. V. Nash (No. 956 — TYPE), det. C. E. Chardon. BPI, also (12).

*Phyalospora rhodina* (Berk. & Curt.) Cke.: See *Botryodiplodia theobromae* Pat.

*P. tucumanensis* Speg.: See *Glomerella tucumanensis* (Speg.) Arx & Müller.

*Rickia depauperata* Thaxt., Proc. Amer. Acad. Arts & Sci. 52: 22. 1916. Haiti or Dominican Republic (?), on *Celaenopsis* sp. (15).

*R. dichotoma* Thaxt., Proc. Amer. Acad. Arts & Sci. 52: 20. 1916. Haiti or Dominican Republic (?), on *Euzeconis* sp. (15).

\**Rosellinia* sp., Port au Prince, on dead hardwood, 14 I, 1925, leg. et det. J. R. Weir. BPI. Also, ? *Rosellinia* sp. (reported as black rot of roots), on *Theobroma cacao* L., *Coffea arabica* L. (50).

*Sclerotinia* sp., on *Annona muricata* L. (60, list for 1935).

*Sphaerotheca pannosa* (Wallr. ex Fr.) Lévl., Ann. Sci. Nat. III, 15: 138. 1851. On *Rosa* sp. (50).

*Sphaerulina coffeicola* Speg. An. Mus. Nac. Hist. Nat. 31: 412. 1922. Vic. Kalacroix, Dept. de l'Artibonite, on *Coffea arabica* L., 11 XII, 1925, leg. E. C. Leonard (No. 7898), det. W. W. Diehl. BPI, also (15).

*Taphrina deformans* (Berk.) Tul., Ann. Sci. Nat. Bot. 5<sup>e</sup> Ser. 5: 128. 1866. On *Prunus persica* (L.) Batsch. (50).

*Torrubiella confragosa* Mains, Mycologia 41: 305. 1949. Bayeux, on Coccidae (scale-insects) on *Hevea brasiliensis* Müll.-Argov., 1925,

leg. J. R. Weir, det. E. B. Mains. BPI, MICH, also (15, as *T. rubra* Pat. & Lagerh.), (35).

\**Trabutia* sp., Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Brya buxifolia* Urb., 17 XI, 1925, leg. E. C. Leonard (as No. 7103 a), det. W. W. Diehl (as a n. sp., but with material too scanty for basis of description). BPI.

*Tryblidiella* sp., Bayeux, on *Theobroma cacao* L., 18 I, 1925, leg. J. R. Weir. BPI, also (15).

\**T. rufula* (Spreng.) Sacc., Bayeux, on *Theobroma cacao* L., 18—19 I, 1925, leg. J. R. Weir, det. W. W. Diehl. BPI (as Nos. 66616, 66619).

\**Xylaria arbuscula* Sacc., *Michelia* 1: 249. 1878. Bayeux, on *Theobroma cacao* L., 18 I, 1925, leg. J. R. Weir, det. J. H. Miller, BPI.

\**X. dichotoma* (Mont.) Mont., Syll. Plant. Crypt. p. 204, 1856. Bayeux, on Palm, 18 I, 1925, leg. J. R. Weir, det. J. H. Miller. BPI.

\**X. fastigiata* Fr., *Nova Acta Soc. Sci. Upsal. Ser. 3, 1: 127. 1855* (1851). Bayeux, on *Hevea brasiliensis* Müll.-Argov., 18 I, 1925, leg. J. R. Weir, det. J. H. Miller. BPI.

\**X. multiplex* (Kunze ex Fr.) Fr., *Nova Acta Soc. Sci. Upsal. Ser. 3, 1: 127. 1855* (1851). Bayeux; vic. La Vallée, Tortue Island; vic. Pikini, Gonave Island; on *Hevea brasiliensis* Müll.-Argov. and indet. dead wood; 6 VII, 1920; 18 I, 1925; 28 XII, 1928—9 I, 1929; leg. E. C. Leonard; J. R. Weir; E. C. & G. M. Leonard (as No. 11358); det. J. H. Miller. BPI.

*X. poitei* (Lév.) Fr., *Nova Acta Soc. Sci. Upsal. Ser. 3, 1: 125. 1855* (1851). Vic. St. Michel de l'Atalaye, Dept. du Nord, on rotten log, 15 XII, 1925, leg. E. C. Leonard (as No. 8030), det. C. L. Shear & W. W. Diehl, confirmed J. H. Miller. BPI, also (15).

## Basidiomycetes

### Uredinales

*Aecidium cordiae* P. Henn., in Bres., P. Henn. & Magn.; *Bot. Jahrb. 17: 491. 1893.* On *Cordia* spp., incl. Type on *C. bullata* L. [*Syn. Varronia bullata* (L.) Jacq.], (2), (10), (24), (59).

*A. rumicis* Schlecht., *Flora Berolin., Part II, p. 114. 1824.* Vic. Port-au-Prince, on *Rumex obtusifolius* L., 1927, leg. R. Duvivier, det. R. Ciferri (Mycofl. Dom. Exs. No. 385). BPI, also (15).

*A. wedeliae* Earle: See *Endophyllum wedeliae* (Earle) Whetz. & Olive.

*Cerotelium desmium* Arth.: See *Phakopsora gossypii* (Arth.) Hirat. f.

*Coleosporium ipomoeae* (Schw.) Burr., *Bull. Ill. Lab. Nat. Hist. 2: 217. 1885.* Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Ipomoea nil* (L.) Roth, 17 XI, 1925, leg. E. C. Leonard (No. 7084 a), det. W. W. Diehl; Vic. Vallée de Jacmel, on *I. batatas* (L.) Lam., IV, 1954, leg. & det. F. Pierre-Louis. BPI, (50).

*Dicaeoma polygoni-amphibii* (Pers.) Arth.: See *Puccinia polygoni-amphibii* Pers.

*D. purpureum* Kuntze: See *Puccinia purpurea* Cke.

*Endophyllum wedeliae* (Earle) Whetz. & Olive, Amer. Jour. Bot. 4: 49. 1917. (Syn. *Aecidium wedeliae* Earle). Les Cayes, on *Wedelia trilobata* (L.) Hitchc. (Syn. *W. carnosa* Rich.), 17 VII, 1910, leg. et det. E. M a y o r (No. 135). (37).

*Kuehneola gossypii* Arth.: See *Phakopsora gossypii* (Arth.) Hirat. f.

\**Mainsia tenella* Jacks. & Holw. in Jacks., Mycologia 23: 111. 1931. Vic. Mission, Fonds Varettes, on *Rubus eggersii* (Focke) Rydb., IV, 1920, leg. E. C. Leonard (No. 3816), det. G. B. Cummins. BPI. Cummins (Illustrated Genera Rust Fungi, p. 69, 1959) now refers *Mainsia* Jacks. to *Gerwasia* Rac.

*Micropuccinia heterospora* (Berk. & Curt.) Arth. & Jacks.: See *Puccinia heterospora* Berk. & Curt.

*M. lantanae* (Farl.) Arth. & Jacks.: See *Puccinia lantanae* Farl.

*M. lateritia* (Berk. & Curt.) Arth. & Jacks.: See *Puccinia lateritia* Berk. & Curt.

*M. melampodii* (Diet. & Holw.) Arth. & Jacks.: See *Puccinia melampodii* Diet. & Holw.

*Nigredo appendiculata* Arth.: See *Uromyces phaseoli* (Reb.) Wint.

*Phakopsora gossypii* (Arth.) Hirat. f., Uredin. Studies, p. 266. 1955. (Syn. *Kuehneola gossypii* Arth., *Cerotelium desmium* Arth., *Uredo gossypii* Lagerh.). Vic. Pont-au-Prince & Bayeux, on *Gossypium barbadense* L., G. sp., I, 1925, IV, 1926, et seq., leg. J. R. Weir, O. F. Cook, et al., det. G. B. Cummins et al. BPI, (50), (60, lists for 1962, 1965).

*P. jatrophiicola* Cumm., Mycologia 48: 604. 1956. Intercepted on *Jatropha gossypifolia* L., 5 X, 1962, leg. & det. H. L. Rubin (Miami No. 21636), ver. G. B. Cummins. BPI, also (60, lists for 1965, 1966).

*Prospodium elegans* (Schroet.) Cumm., Lloydia 3: 67. 1940. (Syn. *Puccinia elegans* Schroet.). Vic. Pont-au-Prince, on *Tecoma stans* (L.) Juss., 1 III, 1926, leg. E. C. Leonard, det. H. S. Jackson. BPI, also (15) as *Puccinia elegans*.

*P. transformans* (Ell. & Ev.) Cumm., Lloydia 3: 66. 1940. [Syn. *Nephlyctis transformans* (Ell. & Ev.) Arth.]. Vic. Port-au-Prince, on *Tecoma stans* (L.) Juss., 1 III 1926 & V, 1929, leg. E. C. Leonard (No. 10121), E. C. & G. M. Leonard (No. 15840), det. H. S. Jackson, R. W. Davidson, ver. G. B. Cummins. BPI, also (15).

*Puccinia arachidis* Speg., Anal. Soc. Ciem. Argent. 17: 90. 1884. On *Arachis hypogaea* L. (50).

*P. bomareae* P. Henn., Hedwigia 35: 242. 1896. Vic. Ennery Dept. de l'Artibonite, on *Bomarea ovata* Mirb., 23 I, 1926, leg. E. C. Leonard (No. 9119 b), det. H. S. Jackson. BPI, also (15).

*P. elegans* Schroet.: See *Prospodium elegans* (Schroet.) Cumm.

*P. heterospora* Berk. & Curt., Jour. Linn. Soc. 10: 356. 1868. [Syn.

*Micropuccinia heterospora* (Berk. & Curt.) Arth. & Jacks.]. Vic. Mission, Fonds Varettes & Marmelade, Dept. du Nord, on *Sida acuta* Burm. f., *S. pyramidata* Cav., IV, 1920, 19 XII, 1925, leg. E. C. Leonard (Nos. 3621 a, 8134 a), det. J. A. Stevenson, H. S. Jackson. BPI, also (2) as *Micropuccinia* on *S. acuta*.

*P. iridis* Rab., Deutsch. Krypt.-Fl. 1: 23. 1844. Interception on *Iris* sp. (60, list for 1962).

*P. lantanae* Farl., Proc. Amer. Acad. Sci. 18: 83. 1883. [Syn. *Micropuccinia lantanae* (Farl.) Arth. & Jacks.]. Vic. Port-au-Prince, on *Phylla nodiflora* (L.) Greene (Syn. *Lippia nodiflora* L.), IV—VI, 1920, leg. E. C. Leonard (Nos. 3436, 3436 a), det. J. A. Stevenson, R. W. Davidson. BPI, also (2) as *Micropuccinia*, (60, list for 1966).

*P. lateritia* Berk. & Curt., Jour. Acad. Nat. Sci. Phil., II, 2: 281. 1853. [Syn. *Micropuccinia lateritia* (Berk. & Curt.) Arth. & Jacks.]. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Diodia rigida* C. & S. [Syn. *Diodella rigida* (C. & S.) Small], 17 XI, 1925, 1 I, 1926, leg. E. C. Leonard (Nos. 7131 a, 8501 b), det. H. S. Jackson. BPI, (2) as *Micropuccinia* on *Diodella*.

\**P. liberta* Kern. Mycologia 11: 412. 1919. Interception on *Eleocharis interstincta* R. Br., 1 V, 1966, leg. E. Y. Okasako, det. G. B. Cummins. BPI.

\**P. malvacearum* Bert. ex Mont. in C. Gay Hist. Fis. Polit. Chile 8: 43. 1852. Vic. Mission, Fonds Varettes; Dondon & Plaisance, Dept. du Nord. On *Malvastrum spicatum* (L.) A. Gray, *M. tricuspidatum* A. Gray (Syn. *M. coromandelianum* Garcke), IV, 1920, I, 1926, leg. E. C. Leonard (Nos. 3678, 8558 a, 9411 a), det. J. A. Stevenson, H. S. Jackson. BPI.

*P. melampodii* Diet. & Holw. in Holw., Bot. Gaz. 24: 32. 1897. [Syn. *Micropuccinia melampodii* (Diet. & Holw.) Arth. & Jacks., *Puccinia tetranthi* Syd.]. General distribution, on *Synedrella nodiflora* (L.) Gaertn., *Tetranthus hirsutus* Spreng., *T. litoralis* Sw., 1908, 1925, 1927, leg. & det. various workers. (2) as *Micropuccinia*, (23), (58) as *Puccinia tetranthi*.

\**P. obtecta* Pk., Bull. Buffalo Soc. Nat. Sci. 1: 66. 1873. Interception, on *Scirpus* sp., 2 V, 1963, leg. J. I. Mason, det. A. J. Watson. BPI.

*P. polygoni-amphibii* Pers., Syn. Meth. Fung., p. 227. 1801. [Syn. *Dicaeoma polygoni-amphibii* (Pers.) Arth.]. Cosmopolitan, on *Polygonum punctatum* Ell. [Syn. *Persicaria punctata* (Ell.) Small, *Polygonum acre* H., B., & K.]. (2) as *Dicaeoma* on *Persicaria*, (5), (37).

*P. porophylli* P. Henn., Hedwigia 39 (Beibl.): 153. 1900. Vic. Anse Galette, Gonave Isl., on *Porophyllum ruderte* (Jacq.) Cass., III, 1920, leg. E. C. Leonard (No. 3220), det. R. W. Davidson. BPI, also (15).

*P. pruni-spinosae* Pers.: See *Tranzschelia pruni-spinosae* (Pers.) Diet.

*P. purpurea* Cke., *Grevillea* 5: 15. 1876. (Syn. *Dicaeoma purpureum* Kuntze). General distribution, on *Sorghum vulgare* Pers., III, 1920, et seq., leg. & det. various workers. BPI, also (8) as *Dicaeoma purpureum* on *Holcus sorghum*, (17, Map 212, 1962), (50), (60, list for 1939).

*P. raunkaerii* Ferd. & Winge, *Bot. Tidsskr.* 29: 8. 1908. [Syn. *P. rivinae* (Berk. & Curt.) Speg., *Aecidium rivinae* Berk. & Curt.]. Vic. Fonds des Negres; La Vallee, Tortue Isl. On *Trichostigma octandrum* (L.) H. Walt., *Rivina humilis* L., III, 1928, V. 1929, leg. C. H. Arndt, E. C. & G. M. Leonard (No. 15499), det. J. A. Stevenson, G. B. Cummins. BPI, also (15) as *Puccinia rivinae*.

*P. recondita* Rob. ex Desm., *Bull. Soc. Bot. France* 4: 798. 1857. (Syn. *P. rubigo-vera* Wint.). [See Cummins & Caldwell (*Phytopath.* 46: 81—82. 1956) for a nomenclatural discussion of this species]. PQ interception, on *Triticum aestivum* L. (60, list for 1936) as *P. rubigo-vera* var. *tritici*.

*P. rivinae* (Berk. & Curt.) Speg.: See *P. raunkaerii* Ferd. & Winge.

*P. rubigo-vera* Wint.: See *P. recondita* Rob. ex Desm.

*P. sorghi* Schw., *Trans. Amer. Phil. Soc.*, II, 4: 295. 1832. Cosmopolitan, on *Zea mays* L. (50).

*P. superior* Jacks. in Jacks. & Whetz., *Trans. Brit. Myc. Soc.* 13: 20. 1928. (Syn. *Uredo superior* Arth., *Dicaeoma superius* Arth.). On *Fimbristylis ferruginea* (L.) Vahl, *F. spadicea* (L.) Vahl. (4) as *Uredo*, (15), (37) as *Uredo*.

*P. tetranthi* Syd.; See *P. melampodii* Diet. & Holw.

*P. urbaniana* P. Henn., *Hedwigia* 37: 278. 1898. PQ interceptions, on *Stachytarpheta jamaicensis* (L.) Vahl, 4 III & 14 VI, 1964 leg. & det. W. D. McLellan, H. L. Rubin, ver. G. B. Cummins. BPI, also (60, lists for 1964, 1965).

*P. xanthii* Schw., *Schr. Nat. Ges. Leipzig*, 1: 73. 1822. Vic. Les Cayes, on *Xanthium strumarium* L., 17 VII, 1910, leg. & det. E. Mayor, BPI, also (37).

*Ravenelia arthurii* Long, *Jour. Myc.* 12: 234. 1906. Syn. *R. portoricensis* Arth.). San Michel, on *Cassia emarginata* L., 5 VIII, 1905, leg. G. V. Nash & N. Taylor (No. 1393), det. (or ver.?) J. C. Arthur. (2), (5), (30), all as *R. portoricensis*.

*R. portoricensis* Arth.: See *R. arthurii* Long.

*Sphenospora keorkianii* Linder, *Mycologia* 36: 464. 1944. PQ interceptions, on *Epidendrum* sp., *Ionopsis* sp., *Oncidium pulchellum* Hook, O. sp., 1960—1963, leg. various, det. A. J. Watson, G. B. Cummins. BPI, also (60, lists for 1961, 1962).

*S. saphena* Cumm., *Bull. Torrey Bot. Club* 87: 40. 1960. PQ interceptions, on *Oncidium pulchellum* Hook., indet. orchid, 24 V, 1960, 20 III, 1961, leg. B. P. Stewart, C. E. Stegmaier, det. A. S. Mills, G. B. Cummins. BPI, also (60, list for 1961).

*Tranzschelia pruni-spinosae* (Pers.) Diet., *Ann. Myc.* 20: 212. 1922.

(Syn. *Puccinia prun-spinosae* (Pers.) On *Prunus persica* (L.) Batsch, *P. sp.* (17, Map 223, 1962), (50) as *Puccinia pruni-spinosae*.

*Uredo epidendri* P. Henn., *Hedwigia* 35: 254. 1896. PQ interception, reported on undetermined orchid. (60, list for 1959).

*U. haitiensis* Jorst., *Ark. f. Bot.*, ser 2, 4 (5): 75. 1959. On *Bauhinia divaricata* L., leg. E. L. Ekman (No. 706), det. I. Jorstad.

*U. incomposita* Kern, *Mycologia* 11: 143. 1919. PQ interception, on *Eleocharis interstincta* (Vahl) R. & S. (60, list for 1941).

*U. nigropuncta* P. Henn., *Hedwigia* 35: 254. 1896. On *Bletia purpurea* (Lam.) DC., VIII, 1903, leg. G. V. Nash (No. 706), det. J. C. Arthur. (2), (3), (5), (15), (59). Fungus species name given as "*nigropunctata*" by (3) and (5).

*U. oncidiidii* P. Henn., *Hedwigia* 41: 15. 1902. PQ interception on unspecified orchid. (60, list for 1960).

*U. superior* Arth.: See *Puccinia superior* Jacks.

*U. toroiana* Kern, *Mycologia* 20: 76. 1928. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Vernonia cinerea* (L.) Less., XII, 1925, leg. E. C. Leonard (No. 7452), det. F. D. Kern. (29), (59).

*Uromyces appendiculatus* (Pers.) Lk.: See *Uromyces phaseoli* (Pers.) Wint.

\**U. bidenticola* Arth., *Mycologia* 9: 71. 1917. Vic. Mission, Fonds Varettes, on *Bidens pilosa* L., IV, 1920, leg. E. C. Leonard (No. 3651), det. J. A. Stevenson. BPI.

*U. columbianus* Mayor, *Mem. Soc. Neuch. Sci. Nat.* 5: 467. 1913. Vic. Mission, Fonds Varettes; St. Michel de l'Atalaye, Dept. du Nord. On *Melanthera buchii* Urban, IV, 1920, XII, 1925, leg. E. C. Leonard (Nos. 3614, 7737), det. F. D. Kern. (29).

\**U. dolicholi* Arth., *Bull. Torrey Bot. Club* 33: 27. 1906. Thor, on *Cajanus cajan* (L.) Millsp. (Syn. *Cajanus indicus* Spreng.), 16 V, 1925, leg. O. F. Cook, det. J. A. Stevenson & A. J. Watson. BPI.

\**U. euphorbiae* Cke. & Pk. in Pk., *Ann. Rept. N. Y. State Mus.* 25: 90. 1873. [Syn. *Uromyces proeminens* Pass.] Vic. St. Marc; vic. St. Michel de l'Atalaye, Dept. du Nord. On *Euphorbia prostrata* Ait., *E. hirta* L., *E. hyssopifolia* L., II, 1920, XI, 1925, I, 1926, leg. E. C. Leonard (Nos. 2858, 7085 a, 8501 a), det. H. S. Jackson, J. A. Stevenson. BPI.

*U. geranii* (DC) Lév., *Ann. Sci. Nat. Bot.* III, 8: 371. 1847. On *Geranium* sp., 1927, leg. R. Duvivier, det. R. Ciferri (Myc. Dom. Exs. No. 401). BPI, also (15).

*U. phaseoli* (Reb.) Wint., in *Rab. Krypt.-Fl.* 1: 157. 1881. [Syn. *Uromyces appendiculatus* (Pers.) Lk., *Nigredo appendiculata* Arth., *Puccinia phaseoli* Reb.] Vic. Mission, Fonds Varettes, and elsewhere, on *Phaseolus lunatus* L., *P. vulgaris* L., IV, 1920, et seq., leg. E. C. Leonard (No. 3676). BPI, (2), (50).

*U. proeminens* (DC.) Pass.: See *Uromyces euphorbiae* Cke. & Pk.

*Other Basidiomycetes*

*Auricularia auricula* (L. ex Hook.) Underw., Mem. Torr. Bot. Club 12: 15. 1902. The specimen reported under this name by (15) is now referred to *A. delicata* (Fr.) P. Henn.

\**A. delicata* (Fr.) P. Henn., Engler's Bot. Jahrb. 17: 492. 1893. Bayeux, on dead wood, 18 I, 1925, leg. J. R. Weir, originally det. J. R. Weir & reported (15) as *A. auricula* (L. ex Hook.) Underw., redet. B. Lowy; vic. St. Raphael, Dept. du Nord, on rotten log, 3 XII, 1925, leg. E. C. Leonard (as No. 7678), det. B. Lowy. BPI.

*A. mesenterica* Pers., Myc. Eur. 1: 97. 1822. Vic. La Vallee, Tortue Island, on rotten log, 28 XII, 1928 — 9 I, 1929, leg. E. C. & G. M. Leonard (as No. 11483), det. W. W. Diehl. BPI, also (15).

*A. polytricha* (Mont.) Sacc., Atti R. Inst. Ven. Ser. 6, 3: 732. 1885. Bayeux, on rotten log, 18 I, 1925, leg. & det. J. R. Weir. BPI, also (15).

\**Calocera cornea* (Fr.) Loudon, Encycl. Pl. 1012. 1829. Bayeux, on *Ficus* sp., 18 I, 1925, leg. J. R. Weir, det. B. Lowy. BPI.

\**Cantharellus* sp., Ile à Vache, on soil, VII, 1928, leg. C. R. Orcutt (as No. 9235), det. V. K. Charles. BPI.

*Coriolus arenicolor* (Berk. & Curt.) Murr.: See *Polyporus pavonius* (Hook.) Fr.

*Corticium koleroga* (Cke.) Hoehn.: See *Pellicularia koleroga* Cke.

*C. vagum* Berk. & Curt.: See *Pellicularia filamentosa* (Pat.) Rogers.

*Cyathus intermedius* (Mont.) Tul., Ann. Sci. Nat., Ser. 3, 1: 72. 1844. Morne Cebut, on *Pseudophoenix insignis* O. F. Cook, 29 VIII, 1924, leg. O. F. Cook, det. J. A. Stevenson. BPI, also (15).

*Dacryopinax spathularia* (Schw.) Martin, Lloydia 11: 116. 1948. Bayeux, on *Castilla elastica* Cerv., I, 1925, leg. J. R. Weir, det. J. A. Stevenson. BPI, also (15) as *Guepinia spathularia* (Schw.) Fr.

*Daedalea elegans* Spreng. ex Fr., Syst. Myc. 1: 335. 1821. Leg. G. V. Nash (as Nos. 234, 240) probably in 1903, det. and reported by W. A. Murrill as „*Agaricus deplanatus* (Fr.) Murr.“ (43).

*D. microsticta* Cke., Grevillea 10: 122. 1882. Vic. Bombardopolis, 22 II, 1929, leg. E. C. & G. M. Leonard (as No. 13487), det. J. A. Stevenson. BPI, also (15).

*Exobasidium vaccinii* (Fckl.) Wor., Verh. Nat. Gesell. Freiburg 4: 397. 1867. Unconfirmed, questionable citation by (15).

*Favolus brasiliensis* (Fr.) Fr., Elench. Fung., p. 44. 1828. Vic. Basse Terre, Tortue Isl., on rotten log, 25 III, 1929, leg. E. C. & G. M. Leonard (as No. 12430), det. J. A. Stevenson. BPI, also (15).

*Fomes applanatus* (Pers. ex S. F. Gray): See *Ganoderma applanatum* (Pers. ex S. F. Gray) Pat.

*F. australis* (Fr.) Cke.: See *Ganoderma applanatum* (Pers. ex S. F. Gray). Pat.

*F. dependens* (Murr.) Sacc. & Trott. in Sacc., Syll. Fung. 21: 292.



1912. Anse Galette, Gonave Isl., 7 III, 1920, leg. E. C. Leonard (as No. 3127), det. J. R. Weir. BPI (as *F. pseudosenex*), also (15).

*F. extensus* (Lév.) Cke., *Grevillea* 14: 18. 1885. Bayeux, on *Funtumia elastica* (Preuss) Stapf., 19 I, 1925, leg. & det. J. R. Weir. BPI, also (15), (32).

*F. feei* (Fr.) Lowe, *Mycologia* 47: 217. 1955. Vic. Jean Rabel, on rotten log, 4 II, 1929, leg. E. C. & G. M. Leonard (as No. 12845), det. J. A. Stevenson. BPI, also (15) as *Trametes feei* Fr.

*F. hemileucus* Berk. & Curt.: See *Polyporus supinus* Sw. ex Fr.

*F. lienoides* (Mont.)?: See *Polyporus lienoides* Mont.

*F. marmoratus* (Berk. & Curt.) Cke.: See *Fomes sclerodermeus* (Lév.) Cke.

*F. melanoporus* (Mont.) Cke., *Grevillea* 14: 20. 1885. Bayeux, on *Mimusops globosa* Gaertn., 18 I, 1925, leg. J. R. Weir, det. J. L. Lowe. BPI, also (32).

*F. pinicola* (Sw. ex Fr.) Cke., *Grevillea* 14: 17. 1885. Forêt les Pines and elsewhere, on dead *Pinus* spp.; V—VI, 1920, leg. E. C. Leonard (as Nos. 3906, 4448, 4541, 4745, 5362), det. V. K. Charles; 26 II, 1953, leg. G. Hepting, det. J. L. Lowe. BPI, also (15), (32).

*F. rimosus* (Berk.) Cke.: See *Fomes robiniae* (Murr.) Sacc. & D. Sacc.

*F. robiniae* (Murr.) Sacc. & D. Sacc., *Syll. Fung.* 17: 117. 1905. Vic. Bassin Bleu, on trunk of "Bayahón" tree [= *Prosopis juliflora* L.], 21 IV, 1929, leg. E. C. & G. M. Leonard (as No. 14937), det. J. A. Stevenson [as *F. rimosus* (Berk.) Cke.]; Vic. Port-au-Prince, causing heartrot of living leguminous trees ["Barahon" = ? *Prosopis juliflora* L.], 14 I, 1925, leg. & det. J. R. Weir [as *F. rimosus* (Berk.) Cke.]. BPI, also (15) as *F. rimosus* Fr.

*F. sclerodermeus* (Lév.) Cke., *Grevillea* 14: 18. 1885. [Syn.: *Polyporus sclerodermeus* Lév., *P. marmoratus* Berk. & Curt., *Fomes marmoratus* (Berk. & Curt.) Cke.]. Ford des Negis, 9 VI, 1929, leg. C. R. Orcutt (as No. 9282), det. J. A. Stevenson; Bayeux, on *Castilla elastica* Cerv., 18 I, 1925, leg. & det. J. R. Weir. BPI, also (15) as *F. marmoratus* (Berk. & Curt.) Cke.

\**Ganoderma* sp., Bayeux, on *Manihot glaziovii* Müll.-Argov., 18 I, 1925, leg. & det. J. R. Weir. BPI.

*G. applanatum* (Pers. ex S. F. Gray) Pat., *Bull. Soc. Myc. France* 5: 67. 1889. [Syn.: *Boletus applanatus* Pers. ex S. F. Gray, *Polyporus australis* Fr., *Fomes applanatus* (Pers. ex S. F. Gray) Gill., *Fomes australis* (Fr.) Cke., *Ganoderma testaceum* (Lév.) Pat., *Ganoderma australe* (Fr.) Pat.]. Marmalade, on tree in coffee plantation, 19 XII, 1925, leg. E. C. Leonard (as No. 8124), det. J. A. Stevenson; Bayeux, on *Mimusops globosa* Gaertn., 18 I, 1925, leg. & det. J. R. Weir. BPI, also (15) as *Fomes australis* (Fr.) Cke. and as *Ganoderma testaceum* (Lév.) Pat.

*G. coffeatum* (Berk.) Furtado, *Persoonia* 4: 388. 1967. Vic. Jean-Rabel, on dead wood, 4 II, 1929, leg. E. C. & G. L. Leonard (as No. 12783), det. J. S. Furtado. BPI, also (21).

*G. colossus* (Fr.) Torrend, *Brot. (Bot.)* 18: 38. 1920. Anse Galette, Gonave Isl., on rotten stump, 9 III, 1920, leg. E. C. Leonard (as No. 3168), det. V. K. Charles. BPI also (15) as *Polyporus colossus* Fr.

\**G. lucidum* (Leyss. ex Fr.) Karst., *Rev. Myc.* 3 (9): 17. 1881. Vic. Port de Paix, on dead wood, 1929, leg. E. C. & G. M. Leonard (as No. 15887 a), det. J. A. Stevenson. BPI.

*G. testaceum* (Lév.) Pat.: See *G. applanatum* (Pers. ex S. F. Gray) Pat.

*Glenospora melioloides* Berk. & Curt.: See *Septobasidium curtisii* (Berk. & Desm.) Boedijn & Steinmann.

*Guepinia spathularia* (Schw.) Fr.: See *Dacryopinax spathularia* (Schw.) Martin.

*Gymnopilus nashii* Murr., *Mycologia* 5: 23. 1913. Port Margot, on old logs, 4 VIII, 1903, leg. G. V. Nash (as No. 79, TYPE), det. W. A. Murrill. (46), (47).

*Gymnopus tenuipes* (Schw.) Murr.: See *Xeromphalina tenuipes* (Schw.) A. H. Sm.

*Hymenochaete tenuissima* Berk., *Linn. Soc. Jour. Bot. (London)* 10: 333. 1868. Vic. Ennery, Dept. de l'Artibonite, on rotten limb, 5 II, 1926, leg. E. C. Leonard (as No. 9541), det. J. R. Weir. BPI, also (15).

*Hypochnus rubrocinctus* Ehr., *Horae Phys. Berol.*, p. 84. 1820. Vic. Mission, Fonds Varettes; Furcy; St. Louis du Nord; on tree bark & rock, 1920—1929, leg. E. C. Leonard, E. C. & G. M. Leonard, det. J. A. Stevenson. BPI, also (15). This species is the basidiolichen *Chiodecton sanguineum* Wainio.

*Lachnocladium brasiliensis* Lév., *Ann. Sci. Nat. Bot. Ser. 3*, 5: 159. 1846 [as *Eriocladus*]; Orbigny, *Dict. Nat. Hist.* 8: 487. 1849. Vic. La Vallée, Tortue Isl., on log, 28 XII, 1928—9 I, 1929, leg. E. C. & G. M. Leonard (as No. 11723), det. J. A. Stevenson. BPI, also (15).

*Laternea triscapa* Turpin, *Dict. Sci. Nat.* 25: 248. 1822. Tortue Isl. fide De Toni in *Sacc., Syll. Fung.* 7: 18. 1888. (15).

\**Lentinus* sp. Vic. St. Michel de l'Atalaye, Dept. du Nord, 20 XI, 1925, leg. E. C. Leonard (as No. 7241), det. V. K. Charles. BPI.

*L. crinitus* (L. ex Fr.) Fr.: See *Panus crinitus* (L. ex Fr.) Sing.

*L. hirtus* (Fr.) Murr.: See *Pleurotus hirtus* (Fr.) Sing.

\**Lenzites saepiaria* Wulf. ex Fr., *Epicrisis*, p. 407. 1838. Mt. Butler, on dead wood, 20 III, 1922, leg. & det. V. K. Charles. BPI.

\**L. striata* (Sw. ex Fr.) Fr., *Epicrisis*, p. 406. 1838. Vic. St. Michel de l'Atalaye, Dept. du Nord, on rotten stump, 18 XI, 1925, leg. E. C. Leonard (as No. 7178), det. J. R. Weir; Lamouriere, on *Tamarindus indica* L., III, 1922, leg. & det. V. K. Charles. BPI.

*Lycoperdon perlatum* Pers., Syn. Meth. Fung., p. 145. 1801. (Syn. *L. gemmatum* Batsch ex Fr.). Vic. St. Louis du Nord, on ground, 3 IV, 1929, leg. E. C. & G. M. Leonard (as No. 14331), det. J. A. Stevenson. BPI, also (15) as *L. gemmatum* Batsch.

*Marasmiellus inoderma* (Berk.) Sing., Sydowia 9: 385. 1955. (Syn.: *Marasmius semiustus* Berk. & Curt.). On *Musa* sp. (61).

*M. stenophyllus* (Mont.) Sing., Sydowia 15: 58. 1961 [1962]. (Syn. *Marasmius stenophyllus* Mont.). On *Musa* sp. (61).

*Marasmius sacchari* Wakk., Centrbl. Bakt. Parasit. Infek. 2: 44. 1896. On *Saccharum officinarum* L. (36).

*M. semiustus* Berk. & Curt.: See *Marasmiellus inoderma* (Berk.) Sing.

*M. stenophyllus* Mont.: See *Marasmiellus stenophyllus* (Mont.) Sing.

*Mycena* sp. Baliverne & La Vallette, on *Theobroma cacao* L., 14—28 I, 1956, sporophores obtained in moist chamber by F. P i e r r e - L o u i s, det. R. G. O r e l l a n a & reported causing a minor "brooming disease". (48).

*M. citricolor* (Berk. & Curt.) Sacc., Syll. Fung. 5: 263. 1887. [Syn. *Stibella flavida* (Cke.) P. Henn., *Omphalia flavida* (Cke.) Maubl. & Rangel]. On *Coffea arabica* L. BPI, also (50).

*Mykoxyrinx cissi* (DC.) G. Beck, Ann. Nat. Hofmus. Wien 9: 123. 1894. Vic. Etroite, Gonave Isl., on *Cissus sicyoides* L., 15—21 III, 1920, leg. E. C. Leonard (as No. 3305), det. J. A. Stevenson. BPI, also on Vitaceae (16).

*Panus crinitus* (L. ex Fr.) Sing., Lilloa 22: 275. 1951. [Syn. *Lentinus crinitus* (L. ex Fr.) Fr.]. Vic. Mission, Fonds Varettes; Dodon, Dept. du Nord; Camp Perrin; on dead wood; 1920, 1926, 1941; leg. E. C. Leonard (as Nos. 4031, 8619), R. C. Lorenz (as No. 3180), det. V. K. Charles. BPI, also (15) as *Lentinus crinitus* (L.) Fr.

*Pellicularia* spp. On *Theobroma cacao* L., causing a "thread blight" disease. (48).

*P. filamentosa* (Pat.) Rogers, Farlowia 1: 113. 1943. (Syn. *Corticium vagum* Berk. & Curt.; Imperfect stage, *Rhizoctonia solani* Kuehn). On *Brassica oleracea* L. (50).

*P. koleroga* Cke., Grevillea 4: 116, 134. 1876. [Syn. *Corticium koleroga* (Cke.) Hoehn.]. On *Coffea arabica* L. (50).

\**Pleurotus* sp. Vic. Basse Terre, Tortue Isl., on tree trunk and rotten log, 25—28 III, 1929, leg. E. C. & G. M. Leonard (as Nos. 12425, 12541), det. V. K. Charles. BPI.

*P. hirtus* (Fr.) Sing., Lilloa 22: 271. 1951. [Syn. *Lentinus hirtus* (Fr.) Murr.]. Vic. Ennery, Dept. de Artibonite, and elsewhere; on rotten wood; 1903, 29 I, 1926; leg. G. V. Nash (as No. 148), E. C. Leonard (as No. 9427); det. W. H. Murrill, V. K. Charles. BPI, also (45).

*Pogonomyces hydnoides* (Sw. ex Fr.) Murr.: See *Trametes hydnoides* (Sw. ex Fr.) Fr.

*Polyporus australis* Fr.: See *Ganoderma applanatum* (Pers. ex S. F. Gray) Pat.

*P. colossus* Fr.: See *Ganoderma colossus* (Fr.) Torrend.

\**P. corrosus* (Murr.) Sacc. & Trott., Syll. Fung. 21: 275. 1912. Port de Paix, on *Borreria* sp., 22 XII, 1928, leg. E. C. & G. M. Leonard (as No. 11075), det. J. A. Stevenson. BPI.

*P. gilvus* (Schw.) Fr., Elench. Fung., p. 104. 1828. Vic. Port-au-Prince; vic. Dondon, Dept. du Nord; or rotten wood and stump of tree; 15 I, 1925, 8 I, 1926; leg. J. R. Weir, E. C. Leonard (as No. 8723); det. J. R. Weir. BPI, and (15).

*P. licnoides* Mont., Ann. Sci. Nat. (Bot.), 2nd Ser., 13: 204. 1840. Bayeux, on *Mimusops globosa* Gaertn., 18 I, 1925, leg. & det. J. R. Weir. BPI, also (15) as *Fomes licnoides* (Mont.)? According to J. L. Lowe (32), *P. licnoides* Mont. is the annual form of *Fomes taxodii* Murr.

*P. maximus* (Mont.) Overh., Sci. Surv. P. R. and Virg. Isl. 8: 164. 1926. Vic. Bayeux, Port-au-Prince, Jeremie, Jean Rabel, Jacmel, and elsewhere, on dead wood, 1917—1941, leg. various, det. J. A. Stevenson. BPI, also (15).

\**P. occidentalis* Klotzsch, Linnaea 8: 486. 1833. Vic. Anse Galette, Gonave Isl., on rotten log, 3—4 III, 1920, leg. E. C. Leonard (as No. 3059), det. J. A. Stevenson. BPI.

*P. pavonius* (Hook.) Fr., Epicrisis, p. 477. 1838. General distribution on hardwood logs, 1905—1929, leg. & det. by various workers. BPI, also (15), reported by (44) as *Coriolum arenicolor* (Berk. & Curt.) Murr.

*P. pinsitus* Fr., Elench. Fung., p. 95. 1828. Vic. Mole St. Nicolas, on rotten stick, 13—19 II, 1929, leg. E. C. & G. M. Leonard (as No. 13136), det. J. A. Stevenson. BPI, also (15).

*P. sanguineus* L. ex Fr., Syst. Myc. 1: 371. 1821. Vic. Gros Morne, Dept. Artibonite, on rotten log, 17 II, 1926, leg. E. C. Leonard (as No. 9754), det. J. R. Weir. BPI. This species was previously leg. by G. V. Nash in 1903 and reported by (41) as *Pycnoporus sanguineus* (L. ex Fr.) Murr.

*P. supinus* Sw. ex Fr., Syst. Myc. 1: 376. 1821. Vic. Marmelade, Dept. du Nord, on tree, 19 XII, 1925, leg. E. C. Leonard (as No. 8183), det. J. R. Weir. BPI, also (15) as both *P. supinus* and its synonym *Fomes hemileucus* Berk. & Curt. [sic].

*P. versatilis* (Berk.) Rom., Handl. Svenska Vat.-Akad. 26: 35. 1901 [Syn. *Trametes versatilis* Berk., *Polystictus versatilis* (Berk.) Sacc.]. Vic. Port-au-Prince, on rotten wood, 14 I, 1924, leg. & det. J. R. Weir. BPI, also (15) as *Polystictus versatilis*.

*P. zonalis* Berk., Ann. Mag. Nat. Hist. 10: suppl. 375. 1843. Bayeux, on *Mimusops globosa* Gaertn., 19 I, 1925, leg. & det. J. R. Weir. BPI, also (15).

*Poria epimiltina* (Berk. & Br.) Bres., Studi Trent. 2 (7): 75. 1926. (Syn. *Poria borbonica* Pat.). Bayeux, on *Funtumia elastica* (Preuss)

Stapf., *Hevea brasiliensis* Müll.-Agrov., 18 I, 1925, leg. & det. J. R. Weir. BPI, also (15), (33) as *P. borbonica*.

*P. punctata* (Fr.) Karst., Bidr. känn. Finl. Nat. Folk 37: 83. 1882. [Syn. *Polyporus punctatus* Fr., *Fomitiporia mazoni* Murr., *F. jamaicensis* Murr., *Poria jamaicensis* (Murr.) Sacc. & Trott.]. Bayeux, on *Mimuspops globosa* Gaertn., 18. I, 1925, leg. J. R. Weir, det. J. L. Lowe. BPI, also (15) as *P. jamaicensis*, (33), (34).

*P. umbrinella* Bres., Hedwigia 35: 282. 1896. [Syn. *P. floridana* (Murr.) Sacc.]. Bayeux, on *Hevea brasiliensis* Müll.-Argov., 18 I, 1925, leg. J. R. Weir, det. J. L. Lowe. BPI, also (15) as *P. floridana*, (33), (34).

*Ptychogaster cubensis* Pat., Bull. Soc. Myc. France 12: 133. 1896. [Syn. *Ceromyces cubensis* (Pat.) Sacc., *Ptychogaster lucidus* Lloyd]. Vic. La Vallée, Tortue Isl., and elsewhere, from base of tree & on living *Tamarindus indica* L., 1 I, 1929, et III, 1921, leg. E. C. & G. M. Leonard, V. K. Charles, det. R. W. Davidson et al. BPI, also (19). According to Davidson et al., *Ptychogaster* is the imperfect stage of *Polyporus*.

*Pycnoporus sanguineus* (L. ex Fr.) Murr.: See *Polyporus sanguineus* L. ex Fr.

*Schizophyllum commune* Fr. ex Fr., Syst. Myc. 1: 330. 1821. General distribution, on rotten sticks & *Saccharum officinarum* L., 1922—1935, leg. various, det. V. K. Charles, W. B. Cooke. BPI, (18), (36), (57).

*S. fasciatum* Pat., Jour. Bot. 1: 170. 1887. Vic. La Vallée, vic. Jean Rabel, on rotten log & sticks, XII, 1928—I, 1929, leg. E. C. & G. M. Leonard (as Nos. 11684, 12703), det. W. B. Cooke. BPI, also (18).

*S. umbrinum* Berk., in Hook. Jour. Bot. 3: 15. 1851. Bayeux, on *Hevea brasiliensis* Müll.-Argov., 10 V, 1925, leg. O. F. Cook, det. W. B. Cooke. BPI, also (15), (18).

*Septobasidium curtisii* (Berk. & Desm.) Boedijn & Steinmann, Arch. Theecult. 5 (1): 36. 1931. (Syn. *Glenospora melioides* Berk. & Curt.). Vic. Ennery, Dept. de l'Artibonite, on shrubs, 18 I, 1926, leg. E. C. Leonard (as No. 8925), det. W. W. Diehl, ver. J. N. Couch. BPI, also (15) as *Glenospora melioides*.

\**S. lepidosaphes* Couch, Jour. Elisha Mitchell Sci. Soc. 51: 35. 1935. On *Lepidosaphes beekii* (purple scale insect) on *Citrus aurantium* L., 12 II, 1933, PQ Interception comm. A. B. Wells (No. 17003), det. J. N. Couch. BPI.

*S. spongium* (Berk. & Curt.) Pat., Bull. Soc. Myc. France 16: 181. 1900. On Coccidae (scale insects) on *Citrus sinensis* (L.) Osbeck, 1932, PQ Interception. (60, list for 1933).

*Sphacelotheca cordobensis* (Speg.) Jacks. in Chardon & Toro, Jour. Dept. Agr. Puerto Rico 14: 298. 1930. [Syn. *Sphacelotheca panici-leucophaei* (Bref.) Clint.]. Vic. La Mourièrre, on *Trichachne insularis* (L.) Nees [Syn. *Digitaria insularis* (L.) Mez; *Panicum leucophaeum* H., B.,

& K.; *Valota insularis* (L.) Chase], 16 III, 1922, leg. & det. V. K. Charles (No. 1956). BPI. (14), (65).

*S. cruenta* (Kuehn) Potter, Phytopath. 2: 98. 1912. (Syn. *Ustilago cruenta* Kuehn). Vic. Anse Galette, Gonave Isl.; St. Michel de l'Atalaye, Dept. du Nord; on *Sorghum vulgare* Pers. [Syn. *Holcus sorghum* L., *Andropogon sorghum* (L.) Brot.]; 3—14 III, 1920; 5. XII, 1925. Leg. E. C. Leonard (Nos. 3141 a, 7760), det. G. P. Clinton & G. L. Zundel, J. A. Stevenson. BPI. (17, Map 408, 1965), (50), (64), (65).

*S. occidentalis* (Seym.) Clint., Jour. Myc. 8: 141. 1902. On *Sorghum vulgare* Pers. (65).

*S. panici-leucophaei* (Bref.) Clint.: See *Sphacelotheca cordobensis* (Speg.) Jacks.

*S. sorghi* (Lk.) Clint., Jour. Myc. 8: 140. 1902. On *Sorghum vulgare* Pers. (6), (14), (17, Map 220, 1965), (50).

*Stereum ostrea* (Blume & Nees ex Fr.) Fr., Epicrisis, p. 547. 1838. (Syn. *S. lobatum* Kunze ex Fr.). Vic. St. Raphael, Dept. du Nord, on rotten log, 3 XII, 1925, leg. E. C. Leonard (No. 7679), det. J. R. Weir. BPI, also (15) as *S. lobatum*.

*S. papyrinum* Mont., Pl. Cell. Cuba, p. 374. 1842. Vic. Gros Morne, Dept. de l'Artibonite, on rotten sticks, 18 II, 1926, leg. E. C. Leonard (No. 9991), det. J. R. Weir. BPI, also (15).

*Trametes cubense* (Mont.) Sacc., Syll. Fung. 9: 198. 1891. Vic. Plaisance, Dept. du Nord, on rotten log, 17 I, 1926, leg. E. C. Leonard (No. 9305), det. J. R. Weir. BPI, also (15).

*T. feei* Fr.: See *Fomes feei* (Fr.) Lowe.

*T. hydroides* (Sw. ex Fr.) Fr., Epicrisis, p. 490. 1838. [Syn. *Pogonomyces hydroides* (Sw. ex Fr.) Murr.]. Vic. Mt. Butler; vic. St. Michel de l'Atalaye, Dept. du Nord; vic. Bombardopolis; on rotten logs, 1903—1929, leg. G. V. Nash (No. 24), V. K. Charles, E. C. Leonard (No. 7633), E. C. & G. M. Leonard (No. 13443), det. W. A. Murrill, V. K. Charles, J. R. Weir, J. A. Stevenson. BPI, (42 — report of Nash's No. 24 as *Pogonomyces*).

*T. subserpens* Murr., Mycologia 12: 108. 1920. Port-au-Prince, on rotten wood, 15 I, 1925, leg. & det. J. R. Weir. BPI, also (15) as *Poria subserpens*?

*Ustilago maydis* (DC.) Cda., Icones Fung. 5: 3. 1842. [Syn. *U. zeae* (Beckm.) Ung.]. General distrib., on *Zea mays* L. (50) as *U. zeae*.

*Xeromphalina tenuipes* (Schw.) A. H. Sm., Pap. Mich. Acad. Sci. 38: 84. 1953. [Syn. *Agaricus tenuipes* Schw., *Collybia tenuipes* (Schw.) Sacc., *Gymnopus tenuipes* (Schw.) Murr.]. On dead wood. (15) as *Gymnopus tenuipes*.

### Fungi Imperfecti

*Alternaria brassicae* (Berk.) Sacc., Michelia 2: 172. 1880. On *Brassica oleracea* L. (50).

*A. cucumerina* (Ell. & Ev.) J. A. Elliott, Amer. Jour. Bot. 4: 472. 1917. [Syn. *Macrosporium cucumerinum* Ell. & Ev.]. On *Cucumis melo* L. (50, as *M. cucumerinum*).

*A. dauci* (Kuehn) Groves & Skolko, Can. Jour. Sci. (Sec. C) 22: 222. 1944. (Syn. *Macrosporium carotae* Ell. & Langl.). On *Daucus carota* L. (50).

*A. longipes* (Ell. & Ev.) Mason, Myc. Pap. Imper. Myc. Inst. No. 2, p. 19. 1928. On *Nicotiana tabacum* L. (50).

\**A. porri* (Ell.) Cif., Jour. Dept. Agr. Puerto Rico 14: 31. 1930. Port-au-Prince, on *Allium* sp., 1951, leg. H. W. S ch n e c k, det. L. C. C a s h. BPI.

\**Aposphaeria* sp. Port-au-Prince; Bayeux. On *Hevea brasiliensis* Müll.-Argov., 15 I & XI, 1925, leg. & det. J. R. W e i r. BPI.

*Asbolisia citrina* Bat. & Cif., Quaderno Inst. Bot. Univ. Pavia 31: 38. 1963. Bayeux, on *Theobroma cacao* L., 19 I, 1925, leg. J. R. W e i r, det. A. C. B a t i s t a (as No. 11081 *Type*). BPI, IMUR, also (7).

*Ascochyta lycopersici* (Cke.) Brun., Bull. Soc. Bot. France 34: 430. 1887. (Syn. *Phoma destructiva* Plowr.). On *Lycopersicon esculentum* L. (60, list for 1931 as *Phoma destructiva*).

*A. pinodella* L. K. Jones, N. Y. State Agr. Exp. Sta. Bull. 547, p. 10. 1927. On *Pisum sativum* L. (50).

*A. pisi* Lib., Exsic. No. 12, Cent. I, Plantae Crypt. 1830. On *Pisum sativum* L. (50). Cited together with *A. pinodella* L. K. Jones & *Mycosphaerella pinodes* (Berk. & Blox.) R. E. Stone [= *M. pinodes* (Berk. & Blox.) Vest. = *Didymella pinodes* (Berk. & Blox.) Petr., Ann. Myc. 22: 17—18. 1924] as causing necrosis.

*Aspergillus flavipes* (Bain. & Sart.) Thom & Church, The Aspergilli, p. 155. 1926. Jean Rabel, cult. isol. ex soil, 1960. (51).

*Asperisporium caricae* (Speg.) Maubl., Bull. Soc. Myc. France 29: 357. 1913. On *Carica papaya* L. (50).

*Botryodiplodia minor* Berl. & Bres., Micromyc. Trident., p. 72. 1889. Bayeux, on *Manihot glaziovii* Müll.-Argov., 18 I, 1925, leg. & det. J. R. W e i r. BPI, also (15).

*B. theobromae* Pat., Bull. Soc. Myc. France 8: 136. 1892. [Syn. *Lasiodiplodia theobromae* (Pat.) Griff. & Maubl., *Diplodia theobromae* (Pat.) Nowell, *D. cacaicola* P. Henn., *D. natalensis* P. Evans, *D. tuberculata* (Ell. & Ev.) Taub]. Thor Farm, Marfranc, St. Marks, & elsewhere, on *Citrus aurantifolia* (Christm.) Swingle, *Hevea brasiliensis* Müll.-Argov., *Ipomoea batatas* (L.) Lam., *Mangifera indica* L., *Persea americana* Mill., & *Theobroma cacao* L., 1922—1955, leg. & det. by various workers. BPI, also (6), (48), (50), (60, lists for 1935, 1936). *Botryodiplodia theobromae* Pat. may not be the valid name for the imperfect fungi cited here, but is one that is widely known. It and all listed synonyms have appeared separately in the literature reporting specimens of Haiti. Additional synonyms are listed by R. K. V o o r h e e s

(Univ. Florida Agr. Exp. Sta. Bull. 371, p. 79, 1942) and all are referred to the perfect state name *Physalospora rhodina* (Berk. & Curt.) Cke., which is in turn referred to *Botryosphaeria quercuum* (Schw.) Sacc. by J. A. von Arx & E. Müller (Beitr. Krypt.-Fl. Schweiz 11 (1): 33. 1954).

\**Cercospora* sp. Vic. Anse Galette, Gonave Isl.; vic. Etang, Etang Saumatre; vic. Port-au-Prince; vic. St. Michel de l'Atalaye, Dept. du Nord. On *Commicarpus scandens* Standley, *Echinodorus berteroi* (Spreng.) Fassett, *Ipomoea pes-caprae* (L.) Roth, *Haematoxylon campechianum* L., 1920—1925, leg. E. C. Leonard (as No. 3032, 3516, 7048), V. K. Charles, det. W. W. Diehl, V. K. Charles. BPI.

*C. antirrhini* Muller & Chupp, Ceiba 1: 171. 1950. PQ Interception on *Antirrhinum majus* L. (60, list for 1966).

*C. bataticola* Cif. & Bruner, Phytopath. 21: 93. 1931. On *Ipomoea batatas* (L.) Lam. (50).

*C. beticola* Sacc., Nuov. Giorn. Bot. Ital. 8: 189. 1876. On *Beta vulgaris* L. (50).

*C. brachiata* Ell. & Ev., J. Mycol. 4: 5. 1888. PQ Interception, on *Amaranthus* sp., 2 VI, 1963. BPI, also (60, list for 1966).

\**C. calotropidis* Ell. & Ev., Missouri Bot. Gard. Ann. Rept. 9: 120. 1898. Vic. Port-au-Prince, on *Calotropis procera* (Ait.) R. Br., II, 1922, leg. & det. V. K. Charles. BPI.

*C. canescens* Ell. & G. Martin, Amer. Nat. 16: 1003. 1882. On *Vigna sinensis* (L.) Endl., *Phaseolus vulgaris* L. (50), who reported *C. canescens* as probably identical to *C. cruenta* Sacc. Chupp (13), however, recognizes both species.

*C. capsici* Heald & Wolf, Mycologic 3: 15. 1911. On *Capsicum frutescens* L. (50).

*C. carbonacea* Miles, Trans. Illinois Acad. Sci. 10: 255. 1917. On *Dioscorea alata* L. (50).

*C. catenospora* Atk., Jour. Elisha Mitchell Sci. Soc. 8: 66. 1892. Vic. Furcy, on *Sambucus caerulea* Raf. var. *neomexicana* Rehd. [as *S. intermedia* var. *insularis* Schwerin], 15 VI, 1920, leg. E. C. Leonard (No. 4358), det. V. K. Charles. BPI, also (15).

*C. coffeicola* Berk. & Cke., Grevillea 9: 99. 1881. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Coffea* sp., *C. arabica* L., 1925—1955, leg. E. C. Leonard (No. 7361), others ?, det. W. W. Diehl, others ? BPI, (1), (50).

*C. echinodori* Chupp, Monogr. Cercospora, p. 28. 1953. Vic. Etang, Etang Saumatre, on *Echinodorus berteroi* (Spreng.) Fassett, 12 IV, 1920, leg. E. C. Leonard (No. 3516), det. C. Chupp. BPI-TYPE. (13).

\**C. furfurella* Speg., Anal. Soc. Cient. Argentina 26: 72. 1888. Vic. Anse Galette, Gonave Isl., on *Commicarpus scandens* (L.) Standley (Syn.



*Boerhaavea scandens* L.), 3—14 III, 1920, leg. E. C. Leonard (No. 3032), det. C. Chupp. BPI.

\**C. gossypina* Cke., *Grevillea* 12: 31. 1883. Acul du Nord, on *Gossypium* sp., 18 VIII, 1924, leg. O. F. Cook, det. J. A. Stevenson & A. J. Watson. BPI.

*C. henningsii* Allesch. in Engler's Pflanzenwelt Ost-Afr., Teil C, p. 35. 1895. On *Manihot utilissima* Pohl. (50).

\**C. heveae* Vincens, Bull. Soc. Path. Veget. France 2: 25. 1915. Bayeux, on *Hevea* sp., I, 1925, leg. J. R. Weir, det. V. K. Charles. BPI.

*C. insulana* Sacc., Nuov. Giorn. Bot. Ital. n. s. 22: 74. 1915. On *Limonium sinuatum* (L.) Mill., 20 XII, 1962, PQ Interception by J. C. Buff & H. L. Rubin (No. 21787), det. H. L. Rubin & D. Dody, ver. A. J. Watson. BPI. (60, list for 1966).

\**C. mangiferae* Koord., Verh. K. Akad. Wetensch. II. 13: 236. 1907. Vic. St. Marc, on *Mangifera indica* L., 25—28 II, 1920, leg. E. C. Leonard (No. 2979), det. V. K. Charles. BPI.

*C. morindicola* Jenkins & Chupp, *Mycologia* 35: 480. 1943. Vic. La Table Arise Galette, Gonave Isl., on *Morinda umbellata* L. (*M. roioc* L.), 3—14 III, 1920, leg. E. C. Leonard (No. 3195), det. A. E. Jenkins & C. Chupp. BPI, also (13), (15), (27).

\**C. mucunae* H. & P. Sydow, *Hedwigia* 42: (Beiblatt 3). 106. 1903. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Mucuna pruriens* (L.) DC., 17 XI, 1925, leg. E. C. Leonard (No. 7067), det. W. W. Diehl. BPI.

*C. musae* Zimm., *Centralb. f. Bakt.* II. 8: 219. 1902. On *Musa* sp., *M. paradisiaca* L. subsp. *sapientum* (L.) Kuntze. (60, lists for 1940, 1942, 1950).

*C. nicotianae* Ell. & Ev., *Proc. Acad. Sci. Phila.* 45: 170. 1893. Vic. St. Michel de l'Atalaye, Dept. du Nord, and elsewhere, on *Nicotiana tabacum* L., 27 XI, 1925, *et seq.*, leg. E. C. Leonard (No. 7522) *et al.*, det. W. W. Diehl *et al.* BPI. (17, Map 172, 1961), (50), (60, list for 1937).

*C. oryzae* Miyake, *Jour. Coll. Agr. Imp. Univ. Tokyo* 2: 263. 1910. On *Oryza sativa* L. (50).

*C. personata* (Berk. & Curt.) Ell. & Ev., *Jour. Myc.* 1: 63. 1885. (Syn. *Cladosporium personata* Berk. & Curt., *Septogloeum arachidis* Rac., *Cercospora arachidis* P. Henn.). On *Arachis hypogaea* L. (50).

*C. ricinella* Sacc. & Berl., *Atti R. Ist. Ven. Sci. Lett. Arti.* VI. 3: 721. 1885. Vic. Anse Galette, Gonave Isl., on *Ricinus communis* L., 3—14 III, 1920, leg. E. C. Leonard (No. 3058), det. J. A. Stevenson. BPI, also (15).

*C. vaginae* Krueger, *Ber. Vers. Stat. Zuckerr. West Java* 1: 64. 1890. General distrib., incl. La Mourière, on *Saccharum officinarum* L., 15 III,

1922, *et seq.*, leg. & det. V. K. Charles *et al.* BPI, (17, Map 251. 1952), (36), (57).

\**C. zinniae* Ell. & G. Martin, Jour. Myc. 1: 20. 1885. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Zinnia peruviana* L. (Syn. *Z. multiflora* L.), 25 XI, 1925, leg. E. C. Leonard (No. 7459 a), det. W. W. Diehl. BPI.

\**Cladosporium* sp. Vic. Ennery, Dept. de l'Artibonite, on *Sorghum vulgare* Pers. (Syn. *Holcus sorghum* L.), 19 I, 1926, leg. E. C. Leonard (No. 8991), det. G. P. Clinton. BPI.

*C. fulvum* Cke., *Grevillea* 12: 32. 1883. Widespread and common, on *Lycopersicon esculentum* Mill. (50).

*C. spongiosum* Berk. & Curt., Jour. Linn. Soc. (London) 10: 362. 1869. Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Setaria setosa* (Swartz) Beauv. (Syn. *Chaetochloa setosa* Swartz), 5 XII, 1925, leg. E. C. Leonard (No. 7759), det. G. P. Clinton. BPI, also (15).

*Chloridium musae* Stahel, Trop. Agr. 14: 43. 1937. On *Musa* sp. (61).

*Colletotrichum* sp. On *Citrus sinensis* (L.) Osbeck, *Epidendrum* sp., *Hevea brasiliensis* Müll.-Argov., *Theobroma cacao* L. BPI. (48), (60, lists for 1933, 1935).

*C. agaves* Cav.: See *C. gloeosporioides* (Penz.) Sacc.

*C. coffeanum* Noack: See *C. gloeosporioides* (Penz.) Sacc.

*C. falcatum* Went: See *C. graminicola* (Ces.) G. W. Wils.

*C. funtumiae* Petch: See *C. gloeosporioides* (Penz.) Sacc.

*C. gloeosporioides* (Penz.) Sacc., Syll. Fung. 3: 735. 1884. [Syn. *C. agaves* Cav., *C. coffeanum* Noack, *C. funtumiae* Petch., *C. heveae* Petch., *C. papayae* P. Henn., *C. phomoides* Chester non Sacc., *Gloeosporium albo-rubrum* Petch, *G. bidgoodii* Cke., *G. limeticola* Clausen, *G. mangiferae* P. Henn., *G. melongenae* Ell. & Halst., *G. piperatum* Ell. & Ev., *Vermicularia capsici* Syd., *V. gloeosporioides* Penz.]. General distribution, specif. incl. Bayeux, Port-au-Prince, & Thor, on various hosts, incl. *Agave* sp., *A. sisalana* Perrine, *Capsicum annuum* L., *C. frutescens* L., *Carica papaya* L., *Citrus* sp., *C. aurantifolia* (Christm.) Swing., *Coffea arabica* L., *Funtumia elastica* (Preuss) Stapf., *Hevea brasiliensis* Müll.-Argov., *Lycopersicon esculentum* (L.) Mill., *Mangifera indica* L., *Oncidium* sp., *Persea americana* Mill., *Solanum melongena* L., & *Theobroma cacao* L., 1922—1956, leg. & det. various. BPI. (15), (48), (50), (60, lists for 1931, 1936, 1939, 1941, 1944). Reports of this common parasite were for the most part made under one or more of the listed synonyms which comprise an abridgment of the list recognized by von Arx (Phytopath. Zeitschr. 29 (4): 413—468. (1957). *C. gloeosporioides* is the imperfect state of *Glomerella cingulata* (Stonem.) Spauld. & Schrenk.

*C. graminicola* (Ces.) G. W. Wils., Phytopath. 4: 110. 1914. (Syn.

*Colletotrichum falcatum* Went, *Diocladium graminicola* Ces.). On *Saccharum officinarum* L. (50), (57), (60, lists for 1929, 1937, 1939, 1950).

*C. heveae* Petch: See *C. gloeosporioides* (Penz.) Sacc.

*C. lagenarium* (Pass.) Ell. & Halst.: See *C. orbiculare* (Berk. & Mont.) v. Arx.

*C. lindemuthianum* (Sacc. & Magn.) Scribner, Rept. Sect. Vet. Path. U. S. Dept. Agr. 1887, p. 364. 1888. On *Phaseolus lunatus* L. (50).

*C. musae* (Berk. & Curt.) v. Arx, Verh. Koninkl. Ned. Akad. Wetensch. Natuurk. Ser. 2, 51 (3): 107. 1957. On *Musa* sp., *M. paradisiaca* L. subsp. *sapientum* (L.) Kuntze. (50), (60, list for 1935). Both reports were as the synonym *Gloeosporium musarum* Cke. & Mass.

*C. orbiculare* (Berk. & Mont.) v. Arx, Phytopath. Zeitschr. 29 (4): 445. 1957. [Syn. *Colletotrichum lagenarium* (Pass.) Ell. & Halst.]. On *Citrullus vulgaris* Schrad. (50) as *C. lagenarium*.

*C. papayae* P. Henn: See *C. gloeosporioides* (Penz.) Sacc.

*C. phomoides* Chester, non Sacc.: See *C. gloeosporioides* (Penz.) Sacc.

*Coniothyrium* sp. Port-au-Prince, on *Saccharum officinarum* L., 15 I, 1925, leg. & det. J. R. Weir. BPI, (57).

\**C. coffeae* Zimm., Centralb. Bakt. II, 8: 216. 1902. Vic. Kalacroix, Dept. de l'Artibonite, on *Coffea arabica* L., 11 XII, 1925, leg. E. C. Leonard (No. 7898), det. W. W. Diehl. BPI.

*C. gastoni* (Roum.) Berl. & Vogl. in Sacc., Syll. Fung. 10: 266. 1892. [Syn. *Phyllosticta gastoni* Roum., *Phyllostictella gastonis* (Roum.) Tassi]. This species was reported as *Phyllostictella gastonis* by Ciferrì (15) who questioned its validity as a Haitian species. The report apparently was based on Roumeguère's original publication [Rev. Mycol. 8 (29): 19. 1886] or his Fungi Gallici Exsiccati No. 3553, both of which give "Haiti (Océanie)" as the locality where Gaston Brunaud collected it. Since other G. Brunaud collections were reported about the same time as from "Tahiti (Océanie)", there seems little doubt that *C. gastoni* is not Haitian. Most likely the specimen originated from the island "Hiti" of the Tuamotu (Low) Archipelago located in the Pacific Ocean east of Tahiti and considered a part of "French Oceania."

*Cordana musae* (Zimm.) Hoehn., Centralb. Bact. II, 60: 7. 1923. (Syn. *Scolecotrichum musae* Zimm.). On *Musa* sp., *M. paradisiaca* L. (*M. sapientum* L.) (17, Map 168, 1963), (61).

\**Curvularia* sp. Port-au-Prince, on *Sorghum* sp., 14 X, 1957, leg. F. Pierre-Louis, det. J. A. Stevenson. BPI.

*Deightoniella torulosa* (Syd.) M. B. Ell., Commonw. Myc. Inst. Myc. Pap. No. 66, p. 7. 1957. [Syn. *Helminthosporium torulosum* (Syd.) Ashby]. On *Musa* sp., *M. paradisiaca* L. Reported as *Helminthosporium torulosum* by (17, Map 175, 1949), (50), as *Deightoniella* by (17, Map 175, revised to 1964).

*Diplodia* sp. On *Cocos nucifera* L. (60, list for 1936).

*D. cacaociola* P. Henn.: See *Botryodiplodia theobromae* Pat.

*D. manihoti* Sacc., Ann. Myc. 12: 310. 1914. Bayeux, on *Manihot glaziovii* Müll.-Argov., 18 I, 1925, leg. J. R. Weir, det. V. K. Charles. BPI, also (15).

*D. natalensis* P. Evans: See *Botryodiplodia theobromae* Pat.

*D. theobromae* (Pat.) Nowell: See *Botryodiplodia theobromae* Pat.

*D. tubericola* (Ell. & Ev.) Taub.: See *Botryodiplodia theobromae* Pat.

\**Diplodina* sp., Acul du Nord, on *Coffea* sp., 18 VIII, 1924, leg. O. F. Cook, det. W. W. Diehl. BPI.

\**Drepanospora pannosa* Berk. & Curt., *Grevillea* 3: 105. 1875. St. Michel de l'Atalaye, Dept. du Nord, on *Crossopetalum rhacoma* (L.) Crantz (Syn. *Rhacoma crossopetalum* L.), 5 XII, 1925, leg. E. C. Leonard (No. 7763 a), det. W. W. Diehl. BPI.

\**Epicoccum* sp. Vic. Ennery, Dept. de l'Artibonite, on *Cordia globosa* H., B., & K., 3 II, 1926, leg. E. C. Leonard (No. 9428 a), det. W. W. Diehl. BPI.

\**Fusarium* sp. Lamouriere, on *Gossypium* sp., *Lycopersicon esculentum* (L.) Mill., III, 1922, let. & det. V. K. Charles (on cotton). (60, list for 1931, on tomato).

*F. annuum* Leonian, New Mexico Agr. Exp. Sta. Bull. 121, p. 9. 1919. [? = *F. vasinfectum* Atk. = *F. oxysporum* Schlecht. f. sp. *vasinfectum* (Atk.) Snyder & Hans.]. On *Capsicum annuum* L., *C. frutescens* L. (50).

*F. cubense* E. F. Sm.: See *F. oxysporum* Schlecht. f. sp. *cubense* (E. F. Sm.) Snyder & Hans.

*F. lunatum* (Ell. & Ev.) Arx, Verh. Koninkl. Nederl. Akad. Wetensch. Natuurk. Ser. II, 51 (3): 101. 1957. (Syn. *Gloeosporium lunatum* Ell. & Ev.). Vic. Anse Galette, Gonave Isl., on *Opuntia dillenii* (Ker.-Gawl.) Haw., 3—14 III, 1920, leg. E. C. Leonard (No. 3127), det. G. H. Martin. BPI, also (15).

*F. martii* App. & Wr.: See *F. solani* (Mart.) App. & Wr.

*F. moniliforme* Sheldon, Ann. Rept. Nebr. Agr. Exp. Sta. 17: 30. 1904. On *Saccharum officinarum* L. (36).

*F. oxysporum* Schlecht., Fl. Berol. 2: 139. 1824. On *Solanum tuberosum* L. (50).

*F. oxysporum* Schlecht. f. sp. *cubense* (E. F. Sm.) Snyder & Hans., Amer. Jour. Bot. 27: 66. 1940. (Syn. *F. cubense* E. F. Sm.). On *Musa paradisiaca* L. (Syn. *M. sapientum* L.). (17, Map No. 31, 1966), (50, as *F. cubense*).

*F. oxysporum* Schlecht. f. sp. *lycopersici* (Sacc.) Snyder & Hans., Amer. Jour. Bot. 27: 66. 1940. On *Lycopersicon esculentum* L. (50).

*F. oxysporum* Schlecht. f. sp. *pisi* (Linford) Snyder & Hans., Amer. Jour. Bot. 27: 67. 1940. On *Pisum sativum* L. (50).

*F. solani* (Mart.) Sacc., *Michelia* 2: 296. 1881. General distribution,

on *Coffea arabica* L. in association with *Chremon repentinus* Rehn (Coffee tree cricket). (1).

*Gloeocercospora sorghi* Bain & Edgerton, *Phytopath.* 33: 225. 1943.

On *Sorghum* sp. & other Gramineae. (17, Map. No. 339, 1957).

*Gloeosporium* sp. On orchid. (60, list for 1933).

*G. albo-rubrum* Petch: See *Colletotrichum gloeosporioides* (Penz.) Sacc.

*G. bidgoodii* Cke.: See *Colletotrichum gloeosporioides* (Penz.) Sacc.

*G. limeticola* Clausen: See *Colletotrichum gloeosporioides* (Penz.) Sacc.

Sacc.

*G. lunatum* Ell. & Ev.: See *Fusarium lunatum* (Ell. & Ev.) Arx.

*G. mangiferae* P. Henn.: See *Colletotrichum gloeosporioides* (Penz.) Sacc.

*G. melongenae* Ell. & Halst.: See *Colletotrichum gloeosporioides*

(Penz.) Sacc.

*G. musarum* Cke. & Mass.: See *Colletotrichum musae* (Berk. & Curt.)

Arx.

*G. piperatum* Ell. & Ev.: See *Colletotrichum gloeosporioides* (Penz.)

Sacc.

*Helminthosporium* sp. On *Musa paradisiaca* L. (60, list for 1936).

*H. carposaprum* Pollack, *Phytopath.* 36: 991. 1946. On *Lycopersicon esculentum* (L.) Mill., 18 I, 1938, 8 III, 1945, leg. Ortiz, G. P. Daley, det. F. G. Pollack. BPI, also orig. publ. & (15).

\**H. ravenellii* Curt., *Grevillea* 3: 102. 1874. Vic. Jean Rabel, vic. Bois Raque Mediantes Morus Comm., on *Sporobolus* sp., *S. poiretti* (Roem. & Schult.) Hitchcock, 27 I, 1929, 28 IX, 1943, leg. E. C. & G. M. Leonard (No. 13053 a), L. R. Holridge (No. 1724 a), det. W. W. Diehl, J. A. Stevenson. BPI. The species has been referred to *Bipolaris ravenellii* (Curt.) Shoemaker in *Can. Jour. Bot.* 37: 884. 1959.

*H. sacchari* (B. de Haan) Butl., *Mem. Dept. Agric. India, Bot. Ser.* 6: 207. 1913. On *Saccharum officinarum* L. (17, Map. 349, 1957), (36), (57), (60, list for 1966).

*H. torulosum* (Syd.) Ashby: See *Deightonella torulosa* (Syd.) M. B. Ell.

\**Macrophomina phaseoli* (Maubl.) Ashby, *Trans. Brit. Myc. Soc.* 12: 145. 1927. [Syn. *Macrophoma phaseoli* Maubl., *Sclerotium bataticola* Taub., *Rhizoctonia bataticola* (Taub.) Butl.]. Vic. St. Marks, on *Ipomoea batatas* (L.) Lam., 27 IX, 1921, leg. C. O. Davis, det. J. A. Stevenson. BPI.

*Macrosporium cucumerinum* Ell. & Ev.: See *Alternaria cucumerina* (Ell. & Ev.) J. A. Elliott.

*Melanconium sacchari* Mass.: See *Phaeocytostroma sacchari* (Ell. & Ev.) Sutton.

*Oidium tabaci* Thuem., *Rev. Cient. Lit. Ist. Coimbra, Ser. 2*, 28: 24. 1880. Vic. Port-au-Prince, on *Nicotiana tabacum* L., 1927, leg. R. Du-

vivier, det. & distrib. R. Ciferri (Myc. Dom. Exs. 387). BPI, also (15). The species is discussed in Sydowia 10: 174. 1956. No perfect stages has been reported from Haiti for this fungus, but it often is attributed to *Erysiphe cichoracearum* DC.

*Oospora citri-aurantii* (Ferr.) Sacc. & Syd., in Sacc., Syll. Fung. 16: 1024. 1902. (Syn. *Oidium citri-aurantii* Ferr.). On *Citrus aurantifolia* (Christm.) Swing., *C. sinensis* (L.) Osbeck, *C. sp.* (17, Map 124, 1946), (60, lists for 1940, 1941).

\**Periconia byssoides* Pers. ex Schw., Schrift Naturf. Ges. Leipzig 1: 125. 1822. (Syn. *Periconia pycnospora* Fres.). Bayeux, on *Hevea brasiliensis* Müll.-Argov., 1 XII, 1925, leg. A. E. Jenkins, det. V. K. Charles. BPI.

*Pestalotia sp.* On *Cocos mucifera* L. (60, list for 1936).

*P. cinnamomi* B. de Haan, Bull. Inst. Bot. Buitenzorg 6: 12. 1900. Bayeux, on *Cinnamomum zeylanicum* Blume, 18 I, 1925, leg. J. R. Weir, (No. 72541), det. V. K. Charles. BPI, also (15), as on *Cinnamomum sp.*

*P. palmarum* Cke., Grevillea 4: 115. 1875. On *Cocos mucifera* L. (50).

\**P. versicolor* Speg., *Michelia* 1: 479. 1889. On leaves of *Coccoloba uvifera* L., 15 III, 1922, leg. & det. V. K. Charles (see *P. coccolobae* Ell. & Ev.). BPI.

*Phaeocystroma sacchari* (Ell. & Ev.) Sutton, Commonw. Myc. Inst. Myc. Paper 97, p. 26. 1964. [Syn. *Melanconium sacchari* Mass., *Pleocyta sacchari* (Mass.) Petr. & Syd.]. General distribution, on *Saccharum officinarum* L. Specimen from Le Frow, III, 1922, leg. & det. V. K. Charles. BPI, also (17, Map 255, 1952), (36).

*Phoma sp.* Vic. St. Michel de l'Atalaye, Dept. du Nord, on *Epidendrum olivaceum* Cogn., *Lycopersicon esculentum* (L.) Mill., 17 XI, 1925, leg. E. C. Leonard (No. 7108 a), det W. W. Diehl. BPI, also (60, list for 1931).

*P. destructiva* Plowr.: See *Ascochyta lycopersici* (Cke.) Brun.

*P. insidiosa* Tassi, Bull. Lab. Ort. Bot. Univ. Siena, I, p. 8. 1898. On *Sorghum vulgare* Pers. var. *caffrorum* (Thunb.) Hubb. & Rehder, V, 1942, intercepted J. Luciano, det. J. A. Stevenson. BPI, also (60, list for 1942).

*Phomopsis citri* Fawc., *Phytopath.* 2: 109. 1912. On *Citrus sinensis* (L.) Osbeck. (60, list for 1931).

*P. vexans* (Sacc. & Syd.) Harter, Jour. Agric. Res. 2: 338. 1914. (Syn. *Phoma vexans* Sacc. & Syd.). On *Solanum melongena* L. (50). The ascigerous stage, *Diaporthe vexans* Gratz, is known only in cultures.

*Phyllosticta sp.* On *Mangifera indica* L. (60, list for 1936).

*P. batatas* (Thuem.) Cke., Grevillea 7: 35. 1898. (Syn. *Depazea batatas* Thuem.). On *Ipomoea batatas* (L.) Lam. (50).

*P. heveae* Zimm., Bull. Inst. Bot. Buitenzorg 10: 21. 1901. Bayeux,

on *Hevea brasiliensis* Müll.-Argov. 1925. leg. Jenkins, O. F. Cook, J. R. Weir, det. V. K. Charles, J. R. Weir. BPI, also (15).

*P. mortoni* Fairm., Mycologia 5: 247. 1913. On *Mangifera indica* L., 29 VIII, 1951, intercepted J. Freedland, det. W. S. Fields. BPI, also (15), (60, lists for 1947, 1952).

*Phyllostictella gastonis* (Roum.) Tassi: See *Coniothyrium gastonis* (Roum.) Berl. & Vogl.

*Phyllostictina pyriformis* Cash & Watson, Mycologia 47: 737—738. 1955. Vic. Port-au-Prince, on *Dendrobium* sp. (leaves), 4 X, 1944, intercepted E. Kostal, det. E. K. Cash & A. J. Watson. BPI, also (11).

*Piricularia grisea* (Cke.) Sacc., *Michelia* 2: 148. 1880. (Syn. *Trichothecium griseum* Cke.) On *Musa* sp. (62).

*Pleocyta sacchari* (Mass.) Petr. & Syd.: See *Phaeocystostroma sacchari* (Ell. & Ev.) Sutton.

(?) *Rhizoctonia* sp. On *Coffea arabica* L., *Theobroma cacao* L. Reported by (50) as probable cause of a "black rot of roots" in both hosts.

*R. solani* Kuehn, Krankh. Kulturp. p. 224. 1858. Cosmopolitan, on *Solanum tuberosum* L. (50). Sterile state of Basidiomycete usually referred to *Pellicularia filamentosa* (Pat.) Rogers.

*Sclerotium bataticola* Taub.: See *Macrophomina phaseoli* (Maubl.) Ashby.

*Scolecotrichum musae* Zimm.: See *Cordana musae* (Zimm.) Hoehn.

*Septoria fructigena* Berk. & Curt., *Grevillea* 3: 10. 1874. PQ Interception, on *Passiflora quadrangularis* L. (60, list for 1966).

*S. lycopersici* Speg., *Ann. Soc. Cien. Argentina* 12: 115. 1881. General distribution, on *Lycopersicon esculentum* (L.) Mill. (50).

*Sphaceloma fawcettii* Jenkins, *Phytopath.* 15: 101. 1925. (Syn. *Cladosporium citri* Fawc.). Imperfect state of *Elsinoë fawcettii* Bitanc. & Jenkins. On *Citrus sinensis* (L.) Osbeck. (60, list for 1931).

*S. perseae* Jenkins, *Phytopath.* 24: 84—85. 1934. On *Persea americana* Mill. (17, Map 232, 1951), (25), (60, list for 1931).

*Stachylidium theobromae* Turconi, *Atti Ist. Bot. Univ. Pavia*, ser. 2, 17: 7. 1920. On *Musa paradisiaca* L. [including subsp. *sapientum* (L.) Kuntze]. (17, Map. 146, 1948), (60, lists for 1942, 1948).

*Stemphylium botryosum* Wallr., *Flora Crypt. Germ.* 2: 300. 1833. [*Macrosporium parasiticum* Thuem., *Thyrospora parasitica* (Thuem.) Angell]. On *Allium cepa* L. (50).

*Stilbella flavida* (Cke.) P. Henn.: See *Mycena citricolor* (Berk. & Curt.) Sacc.

*Thielaviopsis* sp. On *Theobroma cacao* L. (48).

*T. basicola* (Berk. & Br.) Ferr., *Flora Ital. Crypt.* 1, part 1, fasc. 8, p. 233. 1912. On *Nicotiana tabacum* L. (50).

*T. paradoxa* (de Seynes) Hoehn., *Hedwigia* 43: 295. 1904. On *Saccharum officinarum* L. (60, lists for 1934, 1935, 1936).

*Triposporium* sp. Bayeux, on *Jambosa jambos* (L.) Mill. (Syn. *Euge-*

*nia jambosa* L.), VIII, 1903, leg. G. V. Nash (No. 65), det. C. A. Batista & R. Ciferri. (8).

*Vermicularia capsici* Syd.: See *Colletotrichum gloeosporioides* (Penz.) Sacc.

*Verticillium* sp. On *Musa paradisiaca* L. (60, list for 1936).

*Zygosporium oscheoides* Mont., Ann. Sci. Nat. 2 Sér., 17: 121. 1842. (Syn. *Z. paraense* Vincens). Bayeux, on *Hevea brasiliensis* Müll.-Argov., 19 I, 1925, leg. J. R. Weir, det. V. K. Charles. BPI, also (15).

#### Host List (Plants)

<i>Acrista</i> sp.	<i>Mycosphaerella brassicicola</i>
<i>Anthostomella</i> sp.	<i>Brya buxifolia</i>
<i>Agave sisalana</i>	<i>Trabutia</i> sp.
<i>Colletotrichum gloeosporioides</i>	<i>Cajanus cajan</i>
<i>Agave</i> sp.	<i>Uromyces dolicholi</i>
<i>Colletotrichum gloeosporioides</i>	<i>Calotropis procera</i>
<i>Allium cepa</i>	<i>Cercospora calotropidis</i>
<i>Stemphylium botryosum</i>	<i>Capsicum annuum</i>
<i>Allium</i> sp.	<i>Colletotrichum gloeosporioides</i>
<i>Alternaria porri</i>	<i>Fusarium annuum</i>
<i>Amaranthus</i> sp.	<i>Rhizopus stolonifer</i>
<i>Cercospora brachiata</i>	<i>Capsicum frutescens</i>
<i>Ananas comosus</i>	<i>Cercospora capsici</i>
<i>Phytophthora cinnamomi</i> (?)	<i>Colletotrichum gloeosporioides</i>
<i>Ananas</i> sp.	<i>Fusarium annuum</i>
<i>Ceratocystis paradoxa</i>	<i>Meliola capsicola</i>
<i>Antirrhinum majus</i>	<i>Carica papaya</i>
<i>Cercospora antirrhini</i>	<i>Asperisporium caricae</i>
<i>Arachis hypogaea</i>	<i>Colletotrichum gloeosporioides</i>
<i>Cercospora personata</i>	<i>Carica</i> sp.
<i>Puccinia arachidis</i>	<i>Physarum</i> sp.
<i>Asplenium dentatum</i>	<i>Cassia emarginata</i>
<i>Dothidella basirufa</i>	<i>Ravenelia arthurii</i>
<i>Bauhinia divaricata</i>	<i>Castilla elastica</i>
<i>Uredo haitiensis</i>	<i>Dacryopinax spathularia</i>
<i>Beta vulgaris</i>	<i>Fomes sclerodermeus</i>
<i>Cercospora beticola</i>	<i>Hypoxyton stygium</i>
<i>Bidens pilosa</i>	<i>Cinnamomum zeylanicum</i>
<i>Uromyces bidenticola</i>	<i>Pestalotia cinnamomi</i>
<i>Bletia purpurea</i>	<i>Cissus sicyoides</i>
<i>Uredo nigropuncta</i>	<i>Mykosyrinx cissi</i>
<i>Bomarea ovata</i>	<i>Citrullus vulgaris</i>
<i>Puccinia bomareae</i>	<i>Colletotrichum orbiculare</i>
<i>Borreria</i> sp.	<i>Erysiphe cichoracearum</i>
<i>Polyporus corrosus</i>	<i>Pythium</i> sp.
<i>Brassica oleracea</i>	<i>Citrus aurantifolia</i>
<i>Alternaria brassicae</i>	<i>Botryodiplodia theobromae</i>
<i>Pellicularia filamentosa</i> [stat. imperf.]	<i>Colletotrichum gloeosporioides</i>
= <i>Rhizoctonia solani</i> ]	<i>Oospora citri-aurantii</i>
<i>Peronospora parasitica</i>	<i>Rhizopus stolonifer</i>
<i>Brassica</i> spp.	<i>Citrus aurantium</i>















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