

## Fungi collected in the Republic of Guinea

### II. Collections from the Kindia area in 1962

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This annual list contains chiefly collections made at or around the Institut de Recherches Fruitières (IRF) at Foulaya near Kindia in 1962.

The IRF is situated about 120 km from the coast in the „savane arboré“ near the first spurs of the Fouta Djalon mountains at an altitude between 355 and 385 metres. The natural vegetation mainly consists of grass of *Andropogon*, *Pennisetum* and *Digitalia* spp. are most prevalent, and of trees as *Anisophyllea laurina*, *Parkia biglobosa*, *Parinarium macrophyllum*, *P. excelsum*, *Dichrostachys glomerata*, *Elaeis guineensis*, *Erythrophleum guineense*, *Lophira alata*, and *Erythrina senegalense*. Where undisturbed by fire, cultivation or grazing, thickets, or even forests are found at suitable places or are developing quickly. The station is devoted to research on tropical fruits of which most species are represented in varietal collections. In production are banana, citrus fruits, pineapple, avocado pear and mango. Manioc, maize, sweetpotatoes, sorghum, taro and some vegetables are planted by workers living around the station.

A dry period from November to May alternates with the rainy season which starts and ends by some weeks of thunderstorms. The annual rainfall from 1951 to 1956 varied between 1820 and 2506 mm per annum with a period of nearly continuous rain from about July 15th to September 10th. The number of days with rain is about 180, with a maximum of 31 days in August and a minimum of 0 to 5 from January to March. The relative humidity during the dry season varies daily between 20 to 40 and 80 to 95%. Dews are heavy at first but becoming less with advancing dry season. The break down of herbaceous plants begins by early December, and growth recommences in May after the first rains. Temperatures vary little during the rainy season with a nearly constant day and night difference of 20 to 27° C. In December and January, however, there may be differences between 8 and 33° C. The maximum temperatures in the hottest time of the year, March and April, are around 35° C during the afternoon and 15 to 22° C during the night.

Sérédou, with which the previous list dealt, lies at a distance of 450 km (about 900 km on the road). Fungi listed from there and found at Kindia as well are being quoted with their serial numbers in list I, as for instance, I, 5.

There is a mycological herbarium at the Institut de Recherches Fruitières established by J. Brun as herbarium IFAC since 1950. Any of my collections having a precedent in that herbarium carries also the IFAC excess number.

I am again indebted to the Director and staff of the Commonwealth Mycological Institute, Kew, for their help in identifying fungi, and to Mr. Deighton, who, in addition, identified a number of host plants.

1. *Aecidium crini* Kalchbr. — On leaves of *Crinum sanderianum* (*Amaryllidaceae*). IRF Kindia, 22 May 1962; common (IMI 95614 a)

2. *Ae. formosanum* Syd. — On leaves of *Emilia sagittata* (*Compositae*). Foulaya near Kindia, July 1962; a heavy attack (IMI 95648), I, 2

3. *Ae. garckeianum* P. Henn — On leaves of *Hibiscus sabdariffa* (*Malvaceae*). IRF Kindia, November 1962; severe leaf spotting after acidia have become effete (IMI 98580)

4. *Alternaria dauci* (Kühn) Groves & Skolko — On leaves of *Daucus carota* (*Umbelliferae*). IRF Kindia, 6 July 1962; a severe leaf rot; I 5

5. *A. macrospora* Zimm. — On leaves of *Sida carpinifolia* (*Malvaceae*). IRF Kindia, 4 May 1962; rare and usually slight (IMI 95611)

6. *A. tenuissima* (Nees ex Fr.) Wiltshire — On leaf spots of *Crotolaria retuso* (*Papilionaceae*). IRF Kindia, 4 July 1962; a few plants showed circular zonate leaf spots in which Nos. 82 and 100 have been found (IMI 95633 a)

7. *A. zinniae* Pape — On leaves of *Ageratum conyzoides* (*Compositae*). IRF Kindia, 7 May 1962; causing small light brown leaf spots which can be destructive during the rainy season where the host occurs densely; common (IMI 95612).

On leaves, stems and sepals of *Tagetes patula* (*Compositae*). IRF Kindia, 22 May 1962; a destructive disease where *Tagetes* occurs, nearly throughout the year (IMI 95615).

8. *Arthrobotryum deightoni* Hansf. — On *Meliola bicornis*, see No. 70, (IMI 98574 c)

9. *Beniowskia sphaeroidae* (Kalchbr. & Cooke) Mason — On leaves of *Setaria barbata* (*Gramineae*). Foulaya near Kindia, 29 September 1962 (IMI 98548 c).

10. *Botryodiplodia theobromae* Pat. — Isolated from fruits of *Citrus aurantium* var. *amara* (*Rutaceae*). IRF Kindia, Sep-

tember 1962; associated with anthracnose, common, but not severe; I 10 — isolated from a fruit of *Citrus sinensis* (*Rulaceae*) in a humid chamber; IRF Kindia, March 1962 (IMI 93226).

11. *Catinula* sp. — On leaves of *Dissotis paucistallata* (*Melastomataceae*). IRF Kindia, 10 November 1962; in light brown zonate leaf spots (IMI 98567)

12. *Cephalosporium zonatum* Sawada — On leaves of *Calopogonium mucunoides* (*Papilionaceae*). IRF Kindia, December 1962; zonate leaf spots under a tree of *Plumeria alba* with the same symptom (IMI 98596 a)

On leaves of *Plumeria alba* (*Apocynaceae*). IRF Kindia, 21 August and November 1962; a common zonate leaf spot (IMI 98536 & 98583 a)

13. *Cercospora bidentis* Tharp — On leaves of *Bidens pilosa* (*Compositae*). IRF Kindia, 4 May and 4 July 1962; a common leaf spot throughout the year (IMI 95609 & 95636); I 15.

14. *C. carbonacea* Miles — On leaves of *Dioscorea* sp. (*Dioscoreaceae*). IRF Kindia, 4 August; a common leaf spot, often severe (IMI 95655)

15. *C. contraria* H. & P. Syd. — On leaves of *Dioscorea hirtiflora* (*Dioscoreaceae*). IRF Kindia, 1 June 1962; a common leaf spot, often severe (IMI 95625); I 20

16. *C. citrullina* Cooke — On leaves of *Citrullus vulgaris* (*Cucurbitaceae*). Foulaya near Kindia. July 1962, severe leaf spotting (IMI 95643).

17. *C. fusimaculans* Atk. — On leaves of *Pennisetum subangustatum* (*Gramineae*). IRF Kindia, December 1962; widespread and severe at places (IMI 98585); I 21. — On leaves of *Rottboellia exaltata* (*Gramineae*). IRF Kindia, November 1962; rare (IMI 98571) — On leaves of *Setaria barbata* (*Gramineae*). Foulaya near Kindia, 29 September 1962; a severe leaf spot (IMI 98548 a)

18. *C. justiciicola* Tai — On leaves of *Asystasia? gangetica* (*Acanthaceae*). IRF Kindia, 8 June 1962 (IMI 95632)

19. *C. physalidis* Ellis — On leaves of *Physalis angulata* (*Solanaceae*). IRF Kindia, 4 May 1962; common (IMI 95610)

20. *C. purpurea* Cooke. — On leaves and fruits of *Persea gratissima* (*Lauraceae*). IRF Kindia; a common and widespread parasite (IMI 93210).

21. *C. sesami* Zimm. — On leaves, stems and fruits of *Sesamum orientale* (*Pedaliaceae*). IRF Kindia, 4 August 1962; a severe attack (IMI 95658)

22. *C. setariae* Atk. — On leaves of *Paspalum conjugatum* (*Gramineae*). IRF Kindia, December 1962; a common leaf spot on this host, severe in the rainy season (IMI 98598)

23. *C. stizolobii* H. & P. Syd. — On leaves of *Mucuna pruriens* (*Papilionaceae*). IRF Kindia, 4 May 1962; a severe leaf spot (IMI 95607).

24. *C. timorensis* Cooke — On leaves of *Ipomoea involucreta* (*Convolvulaceae*). IRF Kindia, 25 May 1962; common but slight on leaves close to the soil (IMI 95622)

25. *C. tridacis-procumbentis* Govindu & Thiumalachar — On leaves of *Tridax procumbens* (*Compositae*). IRF Kindia, 3 May 1962; common but slight throughout the year (IMI 95604)

26. *C. volkammeriae* Speg. — On leaves of *Clerodendron scandens* (*Verbenaceae*). IRF Kindia, 6 July 1962; common but slight throughout the year (IMI 95641); I 25

27. *Cercospora* sp. — On leaves and stems of *Erigeron floribundus* (*Compositae*). IRF Kindia, 25 May 1962; a common and sometimes destructive leaf spot (IMI 95620)

On moribund leaves of *Euphorbia heterophylla* (*Euphorbiaceae*). IRF Kindia, December 1962; (IMI 98595)

On leaves of *Ocimum basilicum* (*Labiatae*). IRF Kindia, 27 April 1962; leaf spots on lower leaves (IMI 95603) This not *C. ocimicola* Petr. & Ciff. Symptoms resemble *C. guatemalensis* Meiller & Chupp

28. *Cercosporella cana* (Sacc.) Sacc. — On leaves of *Erigeron floribundus* (*Compositae*). IRF Kindia, 3 June 1962; this mildew-like symptom has only been seen once on a few plants (IMI 95628)

29. *Cintractia limitata* Clint. — In inflorescences of *Mariscus umbellatus* (*Cyperaceae*). Foulaya near Kindia, 4 June 1962; frequent (IMI 95627). IFAC 12, 1955, Dalaba.

30. *Clavaria* sp. — On bare soil between some *Borreria verticillata*. IRF Kindia, 10. July 1962; sterile (IMI 95647)

31. *Cochliobolus heterostophus* (Drechsler) Drechsler. — Conidial on leaves of young *Elaeis guineensis* (*Palmae*). IRF Kindia, 10 March 1962 (IMI 93219 b)

32. *C. miyabeanus* (Ito & Kur.) Drechsler — On spikelets of *Oryza sativa* (*Gramineae*). IRF Kindia, August 1962; this fungus occurred together with Nos. 36, 81, 91 and 116 in a very common symptom. The same fungus causes a very common leaf spot and is the most serious disease of rice in Guinea (IMI 98550 f)

33. *Colletotrichum capsici* (Syd.) Butl. & Bisby — On leaves of *Colocasia* sp. (*Araceae*). IRF Kindia, November 1962; in light brown progressing leaf spots, s. also N. 55 (IMI 98581 a)

34. *C. graminicola* (Ces.) Wilson — On leaves of *Pennisetum* sp. (*Gramineae*). IRF Kindia, September 1962; common, associated with No. 97 (IMI 98553 b). IFAC 61, 1955, on *Sorghum vulgare*.



35. *Colletotrichum* sp. — On leaves of *Azelia africana* (*Caesalpinaceae*). IRF Kindia, October 1962; associated with Nos. 38 and 77 (IMI 98559 c)

36. *Coniothyrium* sp. — On leaves of *Digitalia horizontalis* (*Gramineae*). IRF Kindia, 20 May 1962; in leaf spots together with Nos. 42 and 47 (IMI 95616 c).

On spikelets of *Oryza sativa* (*Gramineae*). IRF Kindia, August 1962; associated with Nos. 32, 81, 91, and 11 (IMI 98550 c)

37. *Corticium solani* (Prill. & Delacr.) Bourd & Galz. — On twigs and leaves of *Hibiscus rosa-sinensis* (*Malvaceae*). IRF Kindia, September 1962; the fungus causes the leaves to die which remain attached to the twigs by means of the mycelium. This disease is confined to one variety and becomes severe during the rainy season, sclerotia are often to be seen on the twigs and the leaf-stalks (IMI 98554)

38. *Cornynespora cassicola* (Berk. & Curt.) Wei — On leaves of *Conopharyngia longiflora* (*Apocynaceae*). IRF Kindia, December 1962 (IMI 98592 b). — On leaves of *Citrus aurantium* var. *amara* (*Rutaceae*). IRF Kindia, 13. September 1962; in light gray leaf spots (IMI 98540 b); I 29.

39. *Curvularia geniculata* (Tracy & Earle) Boedijn — On leaves of *Crinum sanderianum* (*Amaryllidaceae*). IRF Kindia, 22 May 1962; rare and slight (IMI 95615 b)

40. *C. lunata* (Wakker) Boedijn — On living and decaying leaves and stems of *Sporobolus pyramidalis* (*Gramineae*). IRF Kindia, occurring throughout the humid period of the year; common in connection with a severe leaf spotting (IMI 95660 a). See also 66.

41. *C. maculans* (Bancroft) Boedijn — Isolated from a fruit of *Ananas comosa* (*Bromeliaceae*). Foulaya near Kindia, 4 June 1962 (IMI 95630)

42. *C. pallescens* Boedijn — On leaves of *Digitalia horizontalis* (*Gramineae*). IRF Kindia, 20 May 1962; slight on light brown leaf spots in a small shady place (IMI 95616 b). See also 36 and 47.

43. *Cylindrotrichum* sp. — On leaves of *Plumeria alba* (*Apocynaceae*). IRF Kindia, 21 August 1962; in leaf spots together with Nos. 12 and 55 (IMI 98536 c)

44. *Cytosphaera mangiferae* Died. — On a dead branch of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 16 July 1962; pycnidia are abundant on the bark as black pustules (IMI 95644)

45. *Deightoniella* sp. — On leaves of *Citrus aurantium* var. *amara* (*Rutaceae*). IRF Kindia, 13 September 1962; on light gray leaf spots (IMI 98540 a)

46. *Dimerina* sp. On *Meliola voacangae* var. *conopharyngiae* (on *Conopharyngia longiflora*) (IMI 98592 d) — On *Meliola disso-ditis* (on *Dissotis ellioti*) which is heavily parasitised. (IMI 98597 b)

47. *Dinemasporium gramineum* Lev. — On leaves of *Digitaria horizontalis* (*Gramineae*). IRF Kindia, 20 May 1962; in light brown angular leaf spots associated with Nos. 36 and 42. (IMI 95616 a)

48. *Ephelis* sp. — On the inflorescences of *Rottboellia exaltata* (*Gramineae*). IRF Kindia, 10. November 1962. (IMI 98567)

49. *Epicoccum* sp. On leaves of *Ocimum* sp. (*Labiatae*). IRF Kindia, October 1962; in one place the leaves of all plants have been found covered with this fungus (IMI 98573)

50. *Eudarluca australis* Speng. — On various *Puccinia* spp. IRF Kindia, found throughout the year on many rusts being sometimes very heavy (IMI 95613, 98549)

51. *Exosporium cantareirense* (P. Henn.) M. B. Ellis — On leaves of *Azelia africana* (*Caesalpiniaceae*). IRF Kindia, October 1962; the fungus is mostly found on the lower side of lesions of *Phyllachora afzeliae* (s. No. 93), common (IMI 98569 b)

52. *Fulvia fulva* (Cooke) Ciferri (= *Cladosporium fulvum* Cooke) On leaves of *Lycopersicum esculentum* (*Solanaceae*). IRF Kindia, 6 July 1962; severe (IMI 95637). IFAC 28, 1952.

53. *Ganoderma lucidum* (Leyss. ex Fr.) Karst. — On a trunk of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 16 July 1962; rare on this host.

54. *Gloeosporium* sp. — On leaves of *Conopharyngia ?longiflora* (*Apocynaceae*). IRF Kindia, December 1962; associated with Nos. 38, 55, and 77 (IMI 98592 c)

55. *Glomerella cingulata* (Stonem.) Spauld. & Schrenk. — On leaves of *Hippeastrum equestre* (*Amaryllidaceae*). IRF Kindia, March 1962; common amongst this ornamental, causing a progressing leaf rot (IMI 93228) — On leaves and fruits of *Citrus aurantium* var. *amara* (*Rutaceae*). IRF Kindia, October to December 1962; this fungus causes a common though not severe anthracnose (IMI 98541 from leaves, 93224 from fruits). — On leaves of *Colocasiasp.* (*Araceae*). IRF Kindia, November 1962; (IMI 98581 b). — On leaves of *Conopharyngia ?longiflora* (*Apocynaceae*). IRF Kindia, December 1962 (IMI 98592 d). — On leaves of ? *Dieffenbachia* sp. (*Araceae*). IRF Kindia, December 1962; causing a destructive leaf rot (IMI 98586) — On leaves of *Euphorbia ? heterophylla* (*Euphorbiaceae*). IRF Kindia, August 1962; in leaf spots, rare (IMI 98545 a) — On dead leaf-stalks of *Hibiscus rosa-sinensis* (*Malvaceae*). IRF Kindia, October 1962; common (IMI 98568).

Isolated from fruits of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 21 March 1962; very common as a cause of fruit rots, die-back of twigs and leaf anthracnosis (IMI 93224). — On leaves of *Plumeria alba* (*Apocynaceae*). IRF Kindia, 21 August 1962; on large gray leaf spots on which Nos. 12 and 43 have also been found (IMI 98536a); I 33. All collections were made in the conidial stage.

56. *G. microspila* Syd. — On leaves of *Osbeckia tubulosa* (*Melastomataceae*). IRF Kindia, November 1962; a common leaf spot, sometimes destructive (IMI 98582); I 34.

57. *Guignardia alternantherae* (Sacc.) Hughes — On leaves of *Alternanthera sessilis* (*Amaranthaceae*). IRF Kindia, 4 August; conidial in circular, well marked leaf spots, common and severe (IMI 95668).

58. *Helminthosporium cynodontis* Marign. — On leaves of *Cynodon dactylon* (*Gramineae*). IRF Kindia, Dec. 1962; a common and sometimes severe leaf spot (IMI 98593).

59. *H. panic*i Overeem. — On leaves of an unidentified Grass growing in a ditch. IRF Kindia, 21 June 1962; common and mostly severe throughout the vegetation period of the host (IMI 95631).

60. *Helminthosporium* sp. — On leaves and glumes spikelets of *Eleusine indica* (*Gramineae*) IRF Kindia, 4 August; common, becoming destructive during the rainy season (IMI 95631). This may be an undescribed species.

61. *Hemileia scholzii* (P. Henn.) Syd. — On leaves and interflorescences of *Clerodendron scandens* (*Verbenaceae*). IRF Kindia, common throughout the humid season; I 37. IFAC 12, 1952.

62. *Hendersonula toruloidea* Natrass. — On leaves of *Agave* sp. (*Agavaceae*). IRF Kindia, January to April 1962; progressing leaf spots on lower leaves which are eventually rendered completely rotten (IMI 93235). — On leaves of *Sansevieria guineensis* (*Agavaceae*). As above; rot begins from the tip or the edge and progresses as a zonate grayish leaf rot, slower than on the first host (IMI 93227).

63. *Hypoxyylon rubiginosum* Pers. ex Fr. — On branches of *Persea gratissima* (*Lauraceae*). IRF Kindia, November 1962; on the upper side of the branches near the trunk depressed scars up to one metres in length. There are only a few trees attacked, on the bark of which the fungus was abundant (IMI 98584).

64. *Kordyana celebensis* Gäum. — On leaves of *Commelina benghalensis* (*Commelinaceae*). IRF Kindia, 4 August 1962; a common and severe leaf spot (IMI 95657).

65. *Lembosia* sp. — On leaves of ? *Millietia* sp. (*Papilionaceae*). IRF Kindia, October 1962; see No. 70 (IMI 98574 b).

66. *Leptosphaeria* sp. — On leaves and stems of *Sporobolus pyramidalis* (*Gramineae*). IRF Kindia, 4 August 1962; common and sometimes severe brownish spotting resulting in decay of leaves and stems (IMI 95660). See also 40.

67. *Leveillula taurica* (Lév.) Arn. — On leaves of *Cap-sicum annuum* (*Solanaceae*). Common throughout the year; I 41.

68. *Lophodermium mangiferae* Koorders. — On dead leaves of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 16 July 1962 (IMI 95645 a).

69. *Malustela aerea* Batista, Lima & Vasconcelos. — Isolated from typical leaf spots due to *Mycosphaerella musicola* Leach from leaves of *Musa* sp. (*Musaceae*). IRF Kindia, 20 May 1962 (IMI 95618 a).

70. *Meliola bicornis* Wint. — On leaves of ? *Millettia* sp. (*Papilionaceae*). IRF Kindia, October 1962, rare (IMI 98574 a).

71. *M. dissotidis* Hansf. & Deighton. — On leaves of *Dissotis ellioti* (*Melastomataceae*). Damakaya near Kindia, December 1962; common at this place (a swamp) (IMI 98597 a).

On leaves of *Dissotis paucistellata* (*Melastomataceae*). IRF Kindia, 4 August 1962; frequently seen on this host, but always slight (IMI 95667 b).

72. *M. fagarae* Hansf. — On leaves of *Fagara* sp. (*Ampelidaceae*). IRF Kindia, December 1962; severe (IMI 98591).

73. *M. jasminicola* P. Henn. — On leaves of *Jasminum grandiflorum* (*Oleaceae*). IRF Kindia, December 1962; slight (IMI 98590).

74. *M. mangiferae* Earle. — On leaves of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 12. 2. 1962. All vars. in the stations collection (more than 60) are attacked, from October onwards (IMI 93216). IFAC 44, 1953, as *Meliolaceae*.

75. *M. stizolobii* Hansf. & Deighton var. *eriosematis* Hansf. & Deighton. — On leaves of *Eriosema glomeratum* (*Papilionaceae*). IRF Kindia, 10 November 1962; severe on a single plant (IMI 98577).

76. *M. panici* Earle. — On leaves of *Rottboellia exaltata* (*Gramineae*). IRF Kindia, October 1962, common but slight on this host (IMI 98561); I 44.

77. *M. voacangae* Hansf. & Stev. var. *conopharyngiae* Hansf. & Deighton. — On leaves of *Conopharyngia ?longiflora* (*Apocynaceae*). IRF Kindia, December 1962; slight (IMI 98592 a).

78. *Merulius* sp. — On leaves of *Rottboellia exaltata* (*Gramineae*). IRF Kindia, 16 July 1962; very rare and sterile (IMI 95646).

79. *Mycosphaerella colocasia* Hara. — Conidial on leaves of *Colocasia* sp. (*Araceae*). IRF Kindia, October 1962; as *Phyllosticta* sp. causing large light brown leaf spots resulting in the decay of old leaves (IMI 98560).

80. *M. musicola* Leach. — On leaves of *Musa* spp. (*Musaceae*). Widespread and of great danger for Guineas banana industry.

81. *Nigrospora oryzae* (Berk. & Br. Petch. — On spikelets of *Oryza sativa* (*Gramineae*). IRF Kindia, August 1962; this fungus occurred together with Nos. 32, 36, 91 and 116 (IMI 98550 d).

82. *N. sphaerica* (Sacc.) Mason. — On leaves of *Crotolaria retusa* (*Papilionaceae*). IRF Kindia, 4 July 1962; found together with Nos. 6 and 100 in circular leaf spots (IMI 95633 b).

83. *Oidium* sp. — On leaves stems and fruits of *Spigelia anthelmia* (*Loganiaceae*). IRF Kindia, from May to July, and in November 1962; this common and destructive mildew causes rather blackish leaves; the „mildew“ aspect appeared to be more pronounced in November, when it is drier (IMI 98530, 98578, 98588). — IMI 98578 may represent a different fungus as the symptom is somewhat different. Intermingled *Euphorbia hirta* were also affected.

84. *Ophiobolus zeeae* Saccas. — On leaves of *Axonopus africanus* (*Gramineae*). Foulaya near Kindia, 12 November 1962; rare (IMI 98564 b).

85. *Periconia byssoides* Pers. ex Schw. — On leaves of *Citrus aurantium* var. *amara* (*Rutaceae*). IRF Kindia, 13 September 1962; on light gray leaf spots (IMI 98540 c).

86. *Peronospora favargerii* Mayor & Viennot-Bourgin. — On leaves of *Euphorbia hirta* (*Euphorbiaceae*). IRF Kindia, common throughout the year, sometimes severe (IMI 95602).

87. *Pestalotiopsis neglecta* (Thüm.) Steg. — Isolated from a fruit spot on *Citrus sinensis* (*Rutaceae*); Kindia, January 1962; a single grayish sunken spot with acervuli (IMI 93218). Inoculations produced a similar rot.

88. *P. versicolor* (Speg.) Stey. — On leaves of *Euphorbia heterophylla* (*Euphorbiaceae*). IRF Kindia, August 1962; in rare circular leafspots together with No. 55 (IMI 98545 b).

89. *P. theae* (Saw.) Stey. — On leaves and leafstalks of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 20 July 1962; common (IMI 95651).

90. *Pestalotiopsis* sp. — Isolated from fruits of *Psidium guajava* (*Myrtaceae*). IRF Kindia, September 1962; common and often severe on maturing fruits, associated with *Glomerella cingulata*, (IMI 98507).

91. *Phitomyces chartarum* (Berk. & Curt.) M. B. Ellis. — On spikelets of *Oryza sativa* (*Gramineae*). IRF Kindia, August 1962; this fungus occurred together with Nos. 32, 36, 81 and 116 (IMI 98550 e).

92. *P. sacchari* (Speg.) M. B. Ellis. — On inflorescences of *Imperata cylindrica* (*Gramineae*). IRF Kindia, 2 August 1962; (IMI 95652).

93. *Phyllachora afzeliae* Syd. — On leaves of *Afzelia africana* (*Caesalpiniaceae*). IRF Kindia, August to November 1962; peritheciae arranged in concentric rings on the upper surface of the leaves, common and on some trees severe (IMI 98559 b, 98569 a). IFAC 23, 1955.



94. *P. digitariae* Syd. — On leaves of *Digitalia horizontalis* (*Gramineae*). IRF Kindia, July to August 1962, common and destructive at many places (IMI 95638, 95669, 98542). IFAC 24, 1955.

95. *P. contigua* Syd. — On leaves of *Millettia* sp. (*Papilionaceae*). IRF. Kindia, 17 February 1962; common (IMI 95606); I 58. IFAC 22, 1952.

96. *P. ?heterospora* P. Henn. — On leaves of *Acroceras zizarioides* (*Gramineae*). IRF Kindia, Febr. 1962; severe at one place; (IMI 93236).

97. *P. sphaerosperma* Wint. — On leaves of *Pennisetum subangustum* (*Gramineae*). IRF Kindia, September 1962; common, very often severe (IMI 98547). — On leaves of *Pennisetum* sp. (*Gramineae*). IRF Kindia, 8 October 1962; appears to be widespread on this host, severe at places (IMI 98570 & 98553). IFAC 38, 1951, as *Phyllachora* sp.

98. *Phyllachora* sp. — On leaves of *Axonopus africanus* (*Gramineae*). Foulaya near Kindia, 12 November 1962; rare (IMI 98564 a).

99. *Phyllosticta dioscorae* Cke. — On leaves of *Dioscorea clumetorium* (*Dioscoreaceae*). IRF Kindia, 17 June 1962; a common circular leaf spot (IMI 98531); I 64.

100. *Phyllosticta* sp. — On leaves of *?Clausena* sp. (*Rutaceae*). IRF Kindia, August 1962; causing a reddish circular leaf spot, severe at this place (IMI 98544). — On leaves of *Crotolaria retusa* (*Papilionaceae*). IRF Kindia, 4 July 1962; in gray circular leaf spots together with Nos. 6 and 82, rare (IMI 95633 c).

101. *Pirostoma* sp. — On leaves of *Imperata cylindrica* (*Gramineae*). IRF Kindia, 2 August 1962; a black sterile stromata, common but slight (IMI 95653). IFAC 40, 1955, as *?Placosphaeria* sp.

102. *Puccinia chaetochloae* Arth. — On leaves of *Pennisetum subangustum* (*Gramineae*). IRF Kindia, 5 September 1962; common (IMI 98538).

103. *P. conclusa* Thum. — On leaves and stems of *Cyperus rotundis* (*Cyperaceae*). IRF Kindia, 16 May and 6 July 1962; common throughout the year often severe (IMI 95613 a and 95642). IFAC 9, 1955, *P. cyperi-tagetiformis* (P. Henn.) Kern.; IFAC 58, 1955, *P. canaliculata* (Schu.) Lagh. var. *tenuis* Doidge.

104. *P. fragosoana* Belt. — On leaves of *Imperata cylindrica* (*Gramineae*). IRF Kindia, Febr. 1962; very common and mostly severe at this time of the year; (IMI 93214).

105. *P. heterospora* Berk. & Curt. — On leaves of *Sida carpinifolia* (*Malvaceae*). IRF Kindia, 22 May 1962; single plants often heavily attacked; I 70.

106. *P. lateritia* Berk. & Curt. — On leaves of *Borreria verticillata* (*Rubiaceae*). IRF Kindia, 29 May 1962; common throughout the

year (IMI 95629 b). — On leaves of *Borreria* sp. (*Rubiaceae*). IRF Kindia, January, September and October 1962; common and destructive; I 72.

107. *P. levis* (Sacc. & Bizz.) Magn. — On leaves of *Digitalia ?longiflora* (*Gramineae*). IRF Kindia, December 1962; heavy at one place, urodospores only (IMI 98589).

108. *P. polysora* Underw. — On leaves of *Zea mays* (*Gramineae*). IRF Kindia, 6 July 1962, common and sometimes severe; I 73.

109. *P. subtegulanea* Cumm. — On leaves of *Mariscus umbellatus* (*Cyperaceae*). IRF Kindia, 27 July 1962; rare but severe (IMI 95649).

110. *P. versicolor* Diet. & Holw. — On leaves of *Andropogon tectorum* (*Gramineae*). IRF Kindia, 27 July 1962; a common rust on this grass (IMI 95650). IFAC 7, 1953, *P. agrophila* Syd.; II and III.

111. *Piricularia grisea* (Cooke) Sacc. — On leaves of *Commelina* sp. (*Commelinaceae*). IRF Kindia, November 1962; associated with a rot starting at edges and tips of leaves, rare (IMI 98579). — On leaves of an unidentified grass. IRF Kindia, 26 May 1962; causing oblong brownish leaf spots, common and severe (IMI 95623).

112. *Septoria jussiaeae* Ell. & Ev. — On leaves of *Jussiaea* sp. (*Onagraceae*). IRF Kindia, 7 July 1962; severe on some single plants (IMI 95640).

113. *Sphaceloma perseae* Jenkins. — On leaves of *Persea gratissima* (*Lauraceae*). IRF Kindia, all the year; affecting the leaf veins thus causing deformations and leaf fall (IMI 95659).

114. *Sphaceloma* sp. — On leaves of *Daniella oliveri* (*Caesalpinaceae*). IRF Kindia, February 1962; causing a circular leaf spot on young shoots (IMI 95654).

115. *Sporidesmium inflatum* (Berk. & Rav. M. B. Ellis) — On dead leaves of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 16 July 1962. (IMI 95645 c).

116. *Stauronema* sp. — On spikelets of *Oryza sativa* (*Gramineae*). IRF Kindia, August 1962; associated with Nos. 32, 36, 81, and 91 (98550 a).

117. *Stigmina (Cercospora) mangiferae* (Koorders) M. B. Ellis. — On leaves of *Mangifera indica* (*Anacardiaceae*). IRF Kindia, 22. 2. 1962; common and widespread (IMI 93209). IFAC 60, 1955.

118. *Syncephalostratum racemosum* (Cohn) Schroet. — Isolated from a common leaf spot on *Ananas comosa* (*Bromeliaceae*). IRF Kindia, September 1962 (IMI 98508).

119. *Uromyces decoratus* Syd. — On leaves of *Crotolaria retusa* (*Papilionaceae*). IRF Kindia; December and January 1961/62; common (IMI 93212).

120. *U. leptodermus* Syd. — On leaves of *Bracharia distichophylla* (*Gramineae*). IRF Kindia, August 1962; a severe attack (IMI 98543).

121. *U. mucunae* Rabenh. — On leaves of *Mucuna pruriens* (*Papilionaceae*). IRF Kindia, 4 May 1962; slight (IMI 95608); I 82.

122. *Uredo ignava* Arth. — On leaves of *Bambusa vulgaris* (*Graminaea*). IRF Kindia, 8 October 1962; very common and sometimes severe (IMI 98556).

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