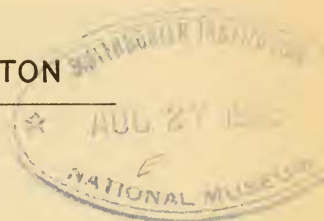


PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON



NATURAL HISTORY OF PLUMMERS ISLAND,
MARYLAND.¹

V. FUNGI.

BY JOHN A. STEVENSON AND EDNA M. ERMOLD.

This preliminary list of the fungi of Plummers Island and vicinity, Montgomery County, Maryland, includes 221 species, which may be considered representative of the fungus flora of the Island in so far as the larger forms are concerned. It is realized, however, that the mycological possibilities of the area have by no means been exhausted, and further intensive collecting will provide material for a much more extensive list. No attempts have been made to collect soil or aquatic fungi or other minute forms. No previous accounts of the fungi of Plummers Island have been published, although P. L. Ricker has maintained for many years a card index of species that have come to his attention. Species known only from the mainland property of the Washington Biologists' Field Club are marked with an asterisk, and those known only from Ricker's index with a dagger. Species so marked are presumably represented by specimens in Mr. Ricker's herbarium which was deposited some years ago with the University of Wisconsin at Madison. All other species included in the list are represented by one or more specimens preserved in the Mycological Collections of the Bureau of Plant Industry or the fungus herbarium of the United States National Museum. For the sake of uniformity the nomenclature of the "Flora of the District of Columbia and Vicinity" by Hitchcock and Standley has been

¹The following numbers of this series have been published previously: I (Introduction) Proc. Biol. Soc. Wash. 48 : 115-117. 1935; II (Flowering plants and ferns), l. c. 118-134; III (Mosses), l. c. 135-137; IV (Birds), l. c. 159-167.

followed for the hosts, with one or two exceptions. Thanks are due to C. L. Shear, V. K. Charles, W. W. Diehl, and E. K. Cash for assistance in making determinations in certain groups, and in checking portions of the manuscript.

ERYSIPHACEAE.

**Erysiphe cichoracearum* DC. On living leaves of *Hydrophyllum canadense* L.

SPHAERIACEAE.

Botryosphaeria ribis Gross. & Dug. On dead and dying twigs of *Quercus* sp.

Chaetomium globosum Kze. On dead twigs of *Asimina triloba* Dunal.

Daldinia concentrica (Bolt.) Ces. & deNot. Common on dead wood.

†*Daldinia vernicosa* (Schw.) Ces. & deNot. On dead wood.

†*Eutypa ludibunda* Sacc. On dead wood.

Eutypa spinosa (Pers.) Tul. On dead twigs of *Acer* sp.

**Eutypella fraxinicola* (C. & P.) Sacc. On dead branches of *Fraxinus* sp.

Gnomonia veneta (Sacc. & Speg.) Kleb. (*Gloeosporium nervisequum* (Fckl.) Sacc.) The anthracnose fungus is common here as elsewhere in the District area on *Platanus occidentalis* L.

Guignardia bidwellii (Ell.) Viala & Ravaz. On dead parts of *Vitis vulpina* L.

†*Hypoxyylon annulatum* (Schw.) Mont. On dead wood.

Hypoxyylon callostroma (Schw.) Berk. On dead wood of *Benzoin aestivale* (L.) Nees.

**Hypoxyylon fuscum* (Pers.) Fr. On dead wood.

Hypoxyylon rubiginosum (Pers.) Fr. On dead wood of *Acer negundo* L.

Hypoxyylon serpens (Pers.) Fr. On dead wood.

Lasiosphaeria ovina (Pers.) Ces. & deNot. On rotten limbs.

Mycosphaerella colorata (Pk.) Earle. On leaves of *Kalmia latifolia* L.

Nummularia clypeus (Schw.) Cke. On dead wood.

†*Nummularia microplaca* (B. & C.) Cke. On dead wood of *Sassafras officinale* Nees & Eberm.

†*Ophiobolus acuminatus* (Sow.) Duby. On dead stems of *Verbesina occidentalis* (L.) Walt.

Rosellinia aquila (Fr.) deNot. On dead wood of *Platanus occidentalis* L.

Rosellinia subiculata (Schw.) Sacc. On rotten log.

Schizoparme straminea Shear. On dead leaves of *Benzoin aestivale* (L.) Nees.

Ustulina vulgaris Tul. On dead wood.

Valsaria insitiva Ces. & deNot. On dead twigs of *Carya* sp. and *Morus ruba* L.

Xylaria polymorpha (Pers.) Grev. On dead wood of *Acer* sp. and other broad-leaved species.

HYPOCREACEAE.

Balansia hypoxyylon (Pk.) Atk. On living plants of *Danthonia spicata* (L.) Beauv.

Hypocrea sulphurea (Schw.) Sacc. On rotten wood.

Nectria atro-fusca Schw. On dead twigs of *Staphylea trifolia* L. A rare species otherwise known only from the type and a collection in the Ellis herbarium.

Peckiella lateritia (Fr.) Maire. On rotten Agaric.

DOTHIDIACEAE.

†*Phyllachora graminis* (Pers.) Fckl. On living leaves of *Brachyelytrum erectum* (Schreb.) Beauv. and *Panicum* sp.

Phyllachora lespedezae (Schw.) Sacc. On living leaves of *Lespedeza hirta* (L.) Hornem. and *L. repens* (L.) Bart.

Dothidea sambuci Pers. On dead twigs of *Asimina triloba* Dunal.

HYSTERIACEAE.

Hysterographium mori (Schw.) Rehm. On dead wood.

Hysterographium viticolum (Cke. & Pk.) Rehm. On dead stems of *Vitis* sp.

TRYBLIDIACEAE.

Tryblidium cucurbitarium (Cke.) Rehm. On bark of *Juniperus virginiana* L.

Tryblidium insculptum Cke. On dead twigs of *Carya ovata* (L.) K. Koch. A very rare species.

DERMATEACEAE.

Dermatea chionanthi Ell. & Ev. On dead branches of *Chionanthus virginica* L.

Urnula craterium (Schw.) Fr. On rotten wood buried in the soil.

BULGARIACEAE.

Coryne sarcoides (Jacq.) Tul. On dead twigs of *Betula* sp.

Coryne sarcoides urnalis (Nyl.) Karst. On rotten wood.

Orbilina leucostigma Fr. On dead wood.

Orbilina luteo-rubella (Nyl.) Karst. On dead wood.

Sarcosoma carolinianum Durand. On rotten wood.

MOLLISACEAE.

Mollisia cinerea (Batsch) Karst. On rotten wood.

Tapesia fusca (Pers.) Fckl. On dead wood.

HELOTIACEAE.

Helotium citrinum (Hedw.) Fr. Common on rotten wood.

†*Lachnum ciliare* (Schröd.) Rehm. (*Trichopeziza capitata* (Pk.) Sacc.) On dead wood of *Quercus alba* L.

Pezizella lythri (Desm.) Shear & Dodge. On dead leaves and twigs of *Carya* sp., *Rhus glabra*, etc.

Phialea scutula (Pers.) Gill. On dead herbaceous stems.

Sclerotinia sp. An interesting but immature specimen on seeds of *Chionanthus virginica* L.

PEZIZACEAE.

Lachnea scutellata (L.) Gill. On dead wood.

Lachnea setosa (Nees) Gill. On dead wood.

Sarcoscypha coccinea (Jacq.) Sacc. On dead wood of *Salix* sp. and other trees.

HELVELLACEAE.

Morchella esculenta (L.) Pers. On soil.

EXOASCACEAE.

Taphrina caerulescens (Desm. & Mont.) Tul. On living leaves of *Quercus maxima* (Marsh.) Ashe.

PUCCINIACEAE.

Aecidium tithymali Arth. O, I. On living leaves of *Tithymalus commutatus* (Engelm.) K. & G.

†*Gymnosporangium juniperi-virginianae* Schw. III. Forming galls on living twigs of *Juniperus virginiana* L.

Puccinia asteris Duby. III. On living leaves of *Aster cordifolius* L.

†*Puccinia argentata* (Schulz) Wint. II, III. On living leaves of *Impatiens biflora* Walt.

†*Puccinia bolleyana* Sacc. II, III. On living leaves of *Carex frankii* Kunth. The aecial stage on *Sambucus canadensis* L., common elsewhere in the District area, doubtless occurs here also.

†*Puccinia cyperi* Arth. II, III. On leaves of *Cyperus strigosus* L.

Puccinia extensicola solidaginis (Schw.) Arth. O, I. On living leaves of *Solidago flexicaulis* L.

Puccinia heucherae (Schw.) Diet. III. On living leaves of *Saxifraga virginensis* Michx.

Puccinia mariae-wilsoni G. W. Clint. O, I, III. On living leaves of *Claytonia virginica* L.

Puccinia pimpinellae (Str.) Mart. II, III. On living leaves of *Osmorhiza longistylis* (Torr.) DC.

Puccinia podophylli Schw. I, III. On living leaves of *Podophyllum peltatum* L.

Puccinia polygoni-amphibii persicariae (Str.) Arth. O, I. On living leaves of *Geranium maculatum* L.

Puccinia rubigo-vera agropyrina (Erikss.) Arth. O, I. (*Aecidium cimicifugatum* Schw.) On living leaves of *Cimicifuga racemosa* (L.) Nutt.

Puccinia rubigo-vera impatientis (Arth.) Mains. O, I. (*P. impatientis* Arth.) On living leaves of *Impatiens biflora* Walt. and *I. pallida* Nutt.

Puccinia schedonnardi Kellerm. & Sw. O, I, II, III. On living leaves of *Hibiscus moscheutos* L. and *Muhlenbergia mexicana* (L.) Trin.

Puccinia verbesinae Schw. II, III. On living leaves of *Verbesina occidentalis* (L.) Walt.

Puccinia violae (Schum.) DC. I. On living leaves of *Viola eriocarpa* Schwein.

Uromyces caladii (Schw.) Farl. O, I, III. On living leaves of *Arisaema dracontium* (L.) Schott and *A. triphyllum* (L.) Torr.

Uromyces lespedezae-procumbentis (Schw.) Curt. II, III. On living leaves of *Lespedeza procumbens* Michx.

Uromyces polygoni (Pers.) Fekl. II. On living leaves of *Polygonum* sp.

†*Uromyces proëminens* (DC) Pass. III. On living leaves of *Chamaesyce preslii* (Guss.) Arth.

MELAMPSORACEAE.

Melampsora abieti-capraearum Tub. II. On living leaves of *Salix nigra* Marsh.

Coleosporium solidaginis (Schw.) Thuem. II, III. On living leaves of *Aster* spp. and *Solidago* spp.

Cronartium quercuum (Berk.) Miyabe. II, III. On living leaves of *Quercus maxima* (Marsh.) Ashe.

Hyalopsora polypodii (Pers.) Magn. II. On living fronds of *Cystopteris fragilis* (L.) Bernh.

†*Pucciniastrum agrimoniae* (Schw.) Tranz. II, III. On living leaves of *Agrimonia gryposepala* Wallr.

USTILAGINACEAE.

Cintractia caricis (Pers.) Magn. In ovaries of *Carex varia* Muhl.

†*Ustilago heufleri* Fekl. Linear pustules on living leaves of *Erythronium americanum* Ker.

Ustilago striaeformis (West.) Niessl. On living leaves of *Festuca obtusa* Spreng.

TILLETIACEAE.

Entyloma compositarum Farl. On living leaves of *Senecio aureus* L.

Entyloma saniculae Pk. On living leaves of *Sanicula marylandica* L.

AURICULARIACEAE.

†*Auricularia auricula-judae* (L.) Schroet. On rotten wood.

Pilacre faginea (Fr.) B. & Br. On dead wood.

TREMELLACEAE.

†*Eridia albida* (Huds.) Bref. On rotten wood.

Tremella frondosa Fr. On rotten logs.

†*Tremella mycetophila* Pk. On sporophores of *Collybia dryophila* Bull.

DACRYOMYCETACEAE.

†*Guepinia spathularia* (Schw.) Fr. On dead wood.

THELEPHORACEAE.

†*Aleurodiscus acerinus* (Pers.) v. Hoehn. & Litsch. On dead branches of *Acer* sp.

Craterellus cantharellus (Schw.) Fr. On soil.

†*Craterellus cornucopioides* (L.) Pers. On soil.

†*Cyphella capula* Holm. A doubtful record, since Burt reports the species only from S. Carolina and New York.

†*Cytidia salicina* (Fr.) Burt. (*Corticium salicinum* Fr.) On dead wood of *Alnus* sp. A doubtful record, the species being otherwise known only on *Salix* and not further south than Pennsylvania.

†*Hymenochaete tabacina* (Sow.) Lev. On dead branches.

- †*Peniophora cinerea* (Fr.) Cke. On dead twigs.
 †*Peniophora gigantea* (Fr.) Mass. On dead wood.
 **Sebacina incrustans* (Pers.) Tul. Growing up around the base of various living woody and herbaceous plants.
Stereum albo-badium (Schw.) Fr. On dead branches of *Quercus* sp.
Stereum fasciatum Schw. Common on rotten logs.
 **Stereum frustulosum* (Pers.) Fr. Causes a pocket rot of logs of *Quercus* spp.
 †*Stereum hirsutum* (Willd.) Fr. On rotten limbs of *Betula* and other broad-leaved trees.
 †*Stereum lobatum* Fr. On dead wood. Perhaps better referred to *S. fasciatum* Schw.
 †*Stereum ochraceo-flavum* Schw. On dead twigs and branches.
Stereum purpureum Pers. On dead wood.
Stereum rameale Schw. Very common on dead wood of many woody plants.
 †*Stereum rugosum* Pers. On dead wood. A doubtful report, the species not being reported by Burt from this region.
Stereum sericeum Schw. On dead twigs and branches of *Cephalanthus occidentalis* L., *Fagus grandifolia* Ehrh. and other woody plants.
 †*Thelephora terrestris* (Ehrh.) Fr. On soil.

CLAVARIACEAE.

Clavaria pallida Schaeff. On soil. It is not clear, in the light of recent monographs of *Clavaria*, just what species is involved here. Other *Clavaria* collections are not specifically determinable due to lack of descriptive collection notes on color, odor, etc.

HYDNACEAE.

- Hydnum imbricatum* L. On soil.
 †*Hydnum repandum* L. On soil.
Hydnum velutinum Fr. On soil.
 †*Irpex cinnamomeus* Fr. (*Hydnochaete olivaceum* (Schw.) Banker). On dead branches of various broad-leaved trees.

POLYPORACEAE.

- Boletus bicolor* Pk. On soil.
Boletus castaneus (Bull.) Fr. On soil.
 †*Boletus crassipes* Pk. On soil.
Boletus felleus (Bull.) Fr. On soil.
Boletus griseus Frost. On soil.
 †*Boletus morgani* Pk. On soil.
 †*Boletus scaber* Fr. On soil.
Daedalea confragosa (Bolt.) Fr. On dead wood of *Salix* sp. and other broad-leaved trees.
Daedalea unicolor (Bull.) Fr. On dead wood.
 †*Favolus alveolaris* (DC.) Quel. On dead wood of *Fagus grandifolia* Ehrh. and other trees.

- †*Fomes applanatus* (Pers.) Gill. On dead wood of *Salix* sp. and other trees.
- †*Fomes igniarius* (L.) Gill var. *laevigatus* Fr. On dead wood.
Fomes lobatus (Schw.) Cke. On dead wood.
Fomes rimosus (Berk.) Cke. On dead and dying trees and logs of *Robinia pseudoacacia* L.
Lenzites betulina (L.) Fr. On dead wood.
Polyporus adustus (Willd.) Fr. On dead wood of *Acer rubrum* L.
Polyporus arcularius (Batsch) Fr. On dead wood.
- †*Polyporus cinnabarinus* (Jacq.) Fr. On dead wood.
Polyporus conchifer (Schw.) Fr. On dead branches of *Ulmus americana* L.
Polyporus dichrous Fr. Common on dead wood.
Polyporus gilvus (Schw.) Fr. Common on dead wood.
Polyporus hirsutus (Wulf.) Fr. Common on dead wood of *Acer rubrum* L. and other trees.
- †*Polyporus pargamenus* Fr. On dead wood.
Polyporus perennis (L.) Fr. On soil.
Polyporus picipes Fr. On rotten log.
- †*Polyporus resinusus* (Schrad.) Fr. On dead wood of *Acer* sp.
- †*Polyporus robiniophilus* (Murr.) Lloyd. On dead wood of *Celtis occidentalis* L. A doubtful host report, *Robinia pseudoacacia* L. being the usual host.
Polyporus tulipiferus (Schw.) Overh. Common on dead wood of *Liriodendron tulipifera* L. and other woody plants. Listed by Ricker as *Irpez sinuosus* Fr.
Polyporus versicolor (L.) Fr. Common on dead wood of *Liriodendron tulipifera* L. and other woody plants.
- †*Poria laminata* Murr. On dead wood.
Poria medulla panis (Pers.) Cke. On dead wood of *Acer rubrum* L.
Strobilomyces strobilaceus Berk. On soil.

AGARICACEAE.

- †*Agaricus silvicola* Vitt. On soil.
- †*Amanita ravenelii* B. & C. On soil. This species not recognized by recent workers and *A. strobiliformis* Vitt. is probably the species concerned.
Amanita strobiliformis Vitt. On soil.
- †*Amanita verna* Bull. On soil.
Amanitopsis volvata Pk. On soil.
- †*Cantharellus cibarius* Fr. On soil.
- †*Cantharellus cinnabarinus* Schw. On soil.
Claudopus nidulans (Pers.) Pk. On soil.
Clitocybe ochropurpurea Berk. On soil.
- †*Collybia dryophila* Bull. On soil.
- †*Coprinus micaceus* (Bull.) Fr. On soil.
Cortinarius sp. On soil.
- †*Crepidotus dorsalis* Pk. On rotten wood.
- †*Hypoholoma sublateritium* Schaeff. On rotten wood.

- Lactarius hygrophoroides* B. & C. On soil.
Lactarius piperatus (L.) Pers. On soil.
 †*Lactarius torminosus* (Schaeff.) Pers. On soil.
 †*Lactarius volemus* Fr. On soil.
 †*Lepiota procera* (Scop.) Fr. On soil.
Marasmius felix Morg. On soil.
 †*Marasmius graminum* (Lib.) Berk. On dead culms and leaves of *Poa sylvestris* A. Gray.
Marasmius siccus (Schw.) Fr. On rotten leaves.
Marasmius tomentosipes Pk. On rotten wood.
Panaeolus sp. (near *P. retirugis* Fr.) On soil.
Panus rudis Fr. On rotten wood.
Panus stipticus (Bull.) Fr. On dead wood of *Fagus grandifolia* Ehrh., and other trees.
Panus strigosus B. & C. On dead wood of *Quercus* sp.
 †*Pezizella rhodoxanthus* (Schw.) Atk. On soil.
Pleurotus ostreatus (Jacq.) Fr. On rotten wood.
Pleurotus sapindus Kalch. On rotten wood.
 †*Russula furcata* (Pers.) Fr. On soil.
Schizophyllum commune Fr. Common on dead wood of many shrubs and trees.
Stropharia elegans Murr. On soil.

PHALLACEAE.

- †*Mutinus ravenelii* (B. & C.) E. Fischer. On soil. Reported as *M. caninus* (Huds.) Fr., a European species.

LYCOPERDACEAE.

- Calvatia rubro-flava* (Cragin) Lloyd. On soil.
Geaster saccatus Fr. On soil.
Lycoperdon atropurpureum Vitt. On soil.
Lycoperdon marginatum Vitt. On soil.
Lycoperdon pyriforme Schaeff. On rotten log.
 †*Scleroderma aurantium* (Vail.) Pers. On soil.

NIDULARIACEAE.

- †*Crucibulum vulgare* Fr. On dead sticks.
Cyathus striatus Willd. On rotten wood.

PHOMACEAE.

- Hendersonia desmazieri* Mont. On dead branches of *Platanus occidentalis* L.
Phyllosticta cruenta (Fr.) Kickx. On living leaves of *Smilacina racemosa* (L.) Desf.
Phyllosticta vagans Pk. On living leaves of *Smilacina racemosa* (L.) Desf.
 †*Septoria nolitangere* Thuem. On living leaves of *Impatiens pallida* Nutt.
Septoria smilacinae Ell. & Mart. On living leaves of *Smilacina racemosa* (L.) Desf.

- Septoria trillii* Pk. Common on living leaves of *Trillium sessile* L.
Sphaeropsis asiminae Ell. & Ev. On dead twigs of *Asimina triloba* Dunal.

MELANCONIACEAE.

- Colletotrichum trillii* Tehon. On living leaves of *Trillium sessile* L.
Cylindrosporium circinans Wint. On living leaves of *Sanguinaria canadensis* L.
Myosporium sanguineum Fekl. On dead twigs of *Betula* sp.
†*Naemospora crocea* (Bon.) Sacc. On dead wood of *Quercus maxima* (Marsh.) Ashe.
Vermicularia herbarum Westd. On dead herbaceous stems.
Vermicularia peckii Sacc. On leaves of *Trillium sessile* L.

MONILIACEAE.

- Botrytis cinerea* Pers. On dead leaves.
Monilia aureo-fulva Cke. & Ell. On rotten wood.
†*Oidium erysiphoides* Fr. On living leaves of *Lamium amplexicaule* L.
†*Trichothecium roseum* (Pers.) Lk. On dead parts of *Vitis aestivalis* Michx.
Verticillium rexianum Sacc. On *Stenonitis* sp. and other Myxomycetes.

DEMATIACEAE.

- Alternaria saponariae* Pk. On dead leaves of *Saponaria officinalis* L.
Cercospora cercidicola Ell. On living leaves of *Cercis canadensis* L.
Cercospora kalmiae Ell. & Ev. On living leaves of *Kalmia latifolia* L.
†*Cladosporium herbarum* (Pers.) Lk. On dead leaves and stems of *Brassica* sp.
†*Gyroceras celtidis* (Bev.) Mont. & Ces. On leaves of *Celtis occidentalis* L.
†*Polythrincium trifolii* (Kze.) Fr. On living leaves of *Trifolium repens* L.
Sporodesmium concinnum Berk. On dead wood.

TUBERCULARIACEAE.

- Bactridium flavum* Kze. & Schm. On rotten wood.
Coccospora aurantiaca Wallr. On rotten wood.
Tuberculina persicina (Ditm.) Sacc. Parasitic on aecia of *Puccinia rubigo-vera agropyrina* (Erikss.) Arth. on *Cimicifuga racemosa* (L.) Nutt.

STILBACEAE.

- Stilbum echinatum* Ell. & Ev. On *Arcyria* sp.