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A preliminary survey of the fungi of Sapa spruce bog

Alan D. Parker
University of Wisconsin - Waukesha
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Alan D. Parker
University of Wisconsin-Waukesha
Waukesha, Wisconsin 53188

INTRODUCTION

Sapa Spruce Bog is the southernmost black spruce bog in Wisconsin. The 12 acre bog and 11 acres of surrounding swamp hardwoods were purchased by The Nature Conservancy in 1983; title to the property was transferred to the UWM Field Station in 1988. An extensive study of the fungi of Sapa Spruce Bog was started during the summer of 1989. The site was divided into three collecting zones—the swamp hardwoods surrounding the bog, the tamarack/black spruce zone, and the central, open sphagnum mat zone.

Greatest species diversity has been observed in the swamp hardwoods; many fungi identified from this zone have also been recorded from the Field Station beech/maple woods (Parker, 1987 and 1988). Factors contributing to the greater diversity of fungi in this zone include the composition of leaf litter and humus, the larger amount of downed logs in various stages of decay, and the variety of tree species with their associated mycorrhizal and wood-rotting fungi.

Among the most interesting fungi identified from the tamarack/black spruce zone are two boletes (Pseudoboletinus spectabilis and Suillus grevillei) and a gill mushroom (Laccaria laccata var. molleri). These species are very characteristic of sphagnum bogs, and are ectomycorrhizal with tamarack and black spruce in this habitat. Many of the dead tamarack and black spruce trunks are small diameter and partially standing. These trunks do not retain water as well as larger diameter, downed logs, making it difficult for many wood-rotting fungi to become established. Because of this, the community of wood-rotting Basidiomycetes on these trees appears to be limited. No fungi have been collected in the open sphagnum mat zone that have not also been found in the tamarack/black spruce zone.

The following 57 species are reported as new records from Sapa Spruce Bog. A number of small gill mushroom taxa remain to be identified. Specimens of most taxa have been deposited in the mycological herbarium of the Milwaukee Public Museum (MIL). I am indebted to Joanne Kline for partially defraying travel expenses with funds received through a Lois Almon Research Grant. Sincere appreciation is extended to John Steinke for his assistance in collecting, and to Michael Larsen for identifying certain Basidiomycetes.
**SPECIES LIST**

**MYXOMYCETES**

**Liceales**
- Reticulariaceae
  - Lyconota epidendrum (L.) Pr.
  - Tubifera sp.

**Physarales**
- Didymiaceae
  - Didema sp.

**Physaraceae**
- Physarum viride (Bull.) Pers.
  - Physarum sp.

**Stemonatales**
- Stemonitaceae
  - Stemonitis fusca Roth
  - Stemonitis splendens Rost.

**ASCOMYCETES**

**Caliciales**
- Mycocaliciaceae
  - Phaeocalicium polyporaeum (Myl.) Tibell on Trichaptum biforme

**Helotiales**
- Geoglossaceae
  - Geoglossum glabrum Pers. (Earth tongue)
  - Microglossum rufum (Schw.) Under. (Orange earth tongue)

**Helotiaceae**
- Bisporella citrina (Fr.) Korf & Carpenter (Yellow cup)

**Hypocreales**
- Hypocreaceae
  - Hypocrea patella Cooke & Peck
  - Hypomyces chrysospermus Tul. on unidentified bolete
  - Hypomyces luteovirens (Fr.) Tul. on Lactarius sp.
Pezizales

Humariaceae

Scutellinia sp. (Eyelash cup)

Sphaeriales

Xylariaceae

Daldinia concentrica (Bolt. : Fr.) Ces. & DeNot. (Cramp balls)
Hypoxylon sp.
Ustulina deusta (Fr.) Pet.

Holoasidiochytes - Hymenomycetes

Agaricales

Amanitaceae

Amanita fulva Pers. (Tawny grisette)

Boletaceae

Fuscoboletinus spectabilis (Pk.) Pomerleau & Smith
Leccinum scabrum (Fr.) S.F. Gray (Scaber stalk)
Suillus grevillei (Klotzsch) Singer

Cortinariaceae

Cortinarius sp.

Hygrophoraceae

Hygrocybe cantharellus (Schw.) Lange
Hygrocybe conica (Fr.) Kummer (Waxy cap)

Russulaceae

Russula sp.

Strophariaceae

Naematoloma fasciculare (Fr.) Karst. (Sulfur tuft)

Tricholomataceae

Inocybe sp.
Laccaria amethystina (Hooker) Murr. (Purple-gilled Laccaria)
Laccaria laccata var. molleri Singer
Mycena haematopus (Fr.) Kummer (Bleeding Mycena)
Phylloclopsis nicholans (Pers. ex Fr.) Sing. (Orange mock oyster)
Resupinatus applicatus (Bat. ex Fr.) S.F. Gray

Aphyllophorales

Cantharellaceae

Cantharellus sp.
Clavariaceae

Clavicorona pyxidata (Fr.) Doty (Crowned coral)

Ganodermataceae

Ganoderma applanatum (Pers. ex Wallr.) Pat. (Artist's conk)

Hymenochaetaceae

Phellinus chrysoloma (Fr.) Donk
Phellinus gilvus (Schw.) Pat.

Meruliaceae

Merulius tremellosus Fr.

Polyporaceae

Coriolus versicolor (L. : Fr.) Quel. (Turkey-tail)
Daedaleopsis confragosa (Bolt. : Fr.) Schröet. (Currycomb)
Fomes fomentarius (L. : Fr.) Kickx (Tinder polypore)
Haploporus nidulans (Fr.) Karst. (Nesting polypore)
Irpex lacteus (Fr. : Fr.) Fr.
Phaeolus schweinitzii (Fr.) Pat.
Polyporus elegans Bull.: Fr.
Trichiaptum biforme (Fr. in KL.) Ryv. (Violet-toothed polypore)

Schizophyllaceae

Plicaturopsis crispa (Fr.) Reid (Crimped gill)
Schizophyllum commune Fr. (Split gill)

Steraceae

Stereum ostrea (Blume & Nees : Fr.) Fr. (False turkey-tail)

Thelephoraceae

Tomentella coerulae (Bres.)

HOLOBASIDIOMYCETES – GASTEROMYCETES

Lycoperdales

Lycoperdaeae

Lycoperdon pedicillatum Pk.
Lycoperdon pyriforme Schaeff. : Pers. (Pear-shaped puffball)

Nidulariales

Sphaerobolaceae

Sphaerobolus stellatus Pers.

Sclerodermatales

Sclerodermataeae

Sclerodermum citrinum Pers. (Hard-shelled puffball)
HETEROBASIDIOMYCETES

Dacrymycetales

Dacrymycetaceae

*Dacrymyces palmatus* (Schw.) Bres. (Orange conifer jelly)

Exobasidiales

Exobasidiaceae

*Exobasidium vaccinii* (Fukl.) Wor.

**LITERATURE CITED**
