

TAXONOMY AND ECOLOGY OF ECTOMYCORRHIZAL MACROFUNGI OF
GRAND TETON NATIONAL PARK

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Objectives

The 6 weeks field studies during the summer of 1987 relate to that part of the previously stated objectives (e.g. McKnight, Harper, & McKnight, 1986) concerned with the inventory of fungal species in the Wyoming national parks, particularly Grand Teton National Park. With the return of Dr. Meinhard Moser, University of Innsbruck, Innsbruck, Austria, we intended to concentrate on the Hymenomycete genus Cortinarius. The range of species studied was broadened significantly by the shorter visits of two additional collaborators, Dr. Harry Thiers, University of San Francisco, San Francisco, CA, and Dr. Joe Ammirati, University of Washington, Seattle, WA.

Results

Although we had intended to work particularly with species of the subgenus Telamonia of Cortinarius, the first few days of collecting produced an unusually rich fruiting of species of Cortinarius subgenus Phlegmacium (= Bulbopodium, in part) and fewer species of Telamonia than expected. The larger species of Phlegmacium are known to fruit sporadically, and by the end of the summer we had seen more species of Phlegmacium in Grand Teton National Park, in better condition, than in any summer since 1967.

The 41 species listed below have not been reported previously from Grand Teton and Yellowstone National Parks. This brings the total number of species known to occur in the Parks to 721.

Agaricus meleagris J. Schaeff.
Agaricus semotus Fries
Clitocybe dilatata Pers. ex Karst.
Clitocybe odora (Fries) Kummer var. pacifica
Cortinarius adalberti Favre
Cortinarius allutus (Secretan) Fries
Cortinarius armeniacus (Schaeffer ex Fries) Fries
Cortinarius aureofulvus Moser
Cortinarius calochrous Fries var. coniferarum Moser
Cortinarius diosmus Kuhnert
Cortinarius elotus Fries

Cortinarius erythrinus Fries
Cortinarius fibrillosus Cleland
Cortinarius fraudulosus Fries
Cortinarius fulvoochrascens Henry
Cortinarius glaucopus Fries. var. olivaceus Moser
Cortinarius ochrophyllus Henry
Cortinarius varius Fries
Galerina moelleri Bas
Galerina vittaeformis (Fr.) Moser
Gymnopilus hybridus (Fr. : Fr.) Singer
Hygrophorus camarophyllus (Alb. & Schwein.: Fr.) Fr.
hygrophorus fuscoalboides Hesler & A. H. Smith
Hygrophorus hyacinthinus Quelet
Inocybe lanuginosa (Bull. : Fr.) Kummer
Inocybe praetervisa Quelet
Inocybe pudica Kuhner (=I. whitei (Berk. & Br.) Sacc.
Leccinum insigne A. H. Smith, Thiers, & Watling var. brunneum Thiers
Melanoleuca cognata (Fries) Kuhner & Maire
Morchella conica Persoon var. costata Vent.
Naucoria escharoides (Fr. : Fr.) Kummer
Naucoria luteolofibrillosa (Kuhn.) Kuhn, & Romagn.
Pholiota spumosa (Fr.) Singer
Pholiota squarrosoides (Peck) Sacc.
Russula dissimulans Shaffer
Russula firmula J. Schff.
Spragueola irregularis (Peck) Nannfeldt (=Neolecta irregularis (Peck)
Korf)
Stereum willeyi Burt
Suillus brunnescens A. H. Smith & Thiers
Tricholoma focale (Fr.) Ricken (=T. zelleri (Stuntz & A. H. Smith)
Ovrebo & Tylutki.

Literature Cited

- McKnight, K. H., K. T. Harper and K. B. McKnight. 1987. Taxonomy and Ecology of Ectomycorrhizal Macrofungi of Grand Teton National Park. In Univ. of Wyoming-Nat'l. Park Service Tenth Annual Report, 1986, pp. 99-101.