

ADDITIONAL RECORDS OF ECTOMYCORRHIZAL MACROFUNGI IN THE VICINITY OF GRAND TETON AND YELLOWSTONE NATIONAL PARKS

KENT H. MCKNIGHT

DEPARTMENT OF BOTANY AND RANGE SCIENCE
BRIGHAM YOUNG UNIVERSITY ♦ PROVO

MEINHARD M. MOSER

LEOPOLD-FRANZENS-UNIVERSITÄT INNSBRUCK
INSTITUT FÜR MIKROBIOLOGIE (N.F.)
INNSBRUCK, AUSTRIA

♦ INTRODUCTION

Fieldwork on this project and study of previous collections in 1994 concentrated on the primary long-term objective of adding to the species inventory of the broad geographic area previously defined (McKnight, 1982; McKnight, et al., 1986; McKnight & Moser, 1993) using the same collecting, laboratory, and herbarium methods. Our studies again concentrated on the Cortinariaceae, particularly the genus *Cortinarius*. This work was aided significantly when we were joined for a short time during August by Dr. Egon Horak from the Geobotanisches Institut, ETH. Zurich, Switzerland, currently specializing in the genus *Galerina*.

DATA

The extremely dry weather during July and August produced the least precipitation during the comparable time in any of the twelve years of our collaborative studies in this area. This made it extremely difficult to find fruiting fungi. For much of the season these were most often found in normally swampy or boggy areas which were unexpectedly or prematurely drying out. Furthermore, the specimens which we did locate were frequently not in satisfactory

condition or sufficient quantity for study. On the other hand, a considerable number of those studied may have been passed over in a better fungus fruiting season. Many require more laboratory and herbarium study for a final identification.

SPECIES NEW TO CHECKLIST

Arrhenia lobata (Persoon: Fries) Kuhner & Lamoure

Boletus pinicola pinicola Vittadini

Bryoglossum gracile (Karsten) Redhead (=Mitrula gracilis Karsten)

Camarophyllus borealis (Peck) Muarrill

Catathelasma ventricosum (Peck) Singer

Collybia cookei (Bresadola) J. D. Arnold

Cortinarius bistreoides Kauffman

cephalix Fries (Fig. 1)

glandicolor Fries (Fig. 2)

helvelloides Fries (Fig. 3)

ionosmus Moser (Fig. 4)

First record for North America.

parvannulatus Kuhner
porphyropus Fries
tabularis Fries

Gymnopilus penetrans (Fries) Murrill

Hypholoma elongatipes Peck

Lactarius deliciosus Fries var. *caespitosus*

Mythicomycetes cornuipes Fries

Omphalina rivulicola (Favre) Lamoure

Phaeogalera stagnina (Fries) Kuhner

NOMENCLATURAL NOTES

Exceptionally good fruiting found in all stages of development allowed Moser to confirm the identity of the following:

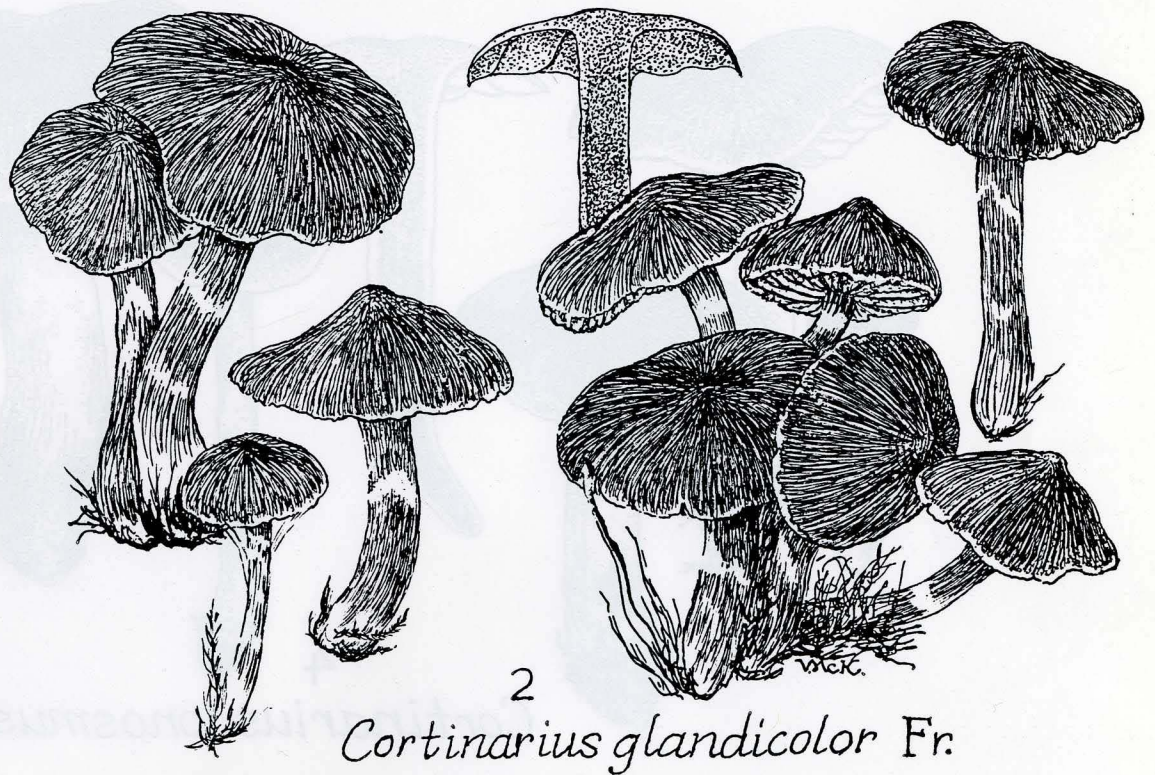
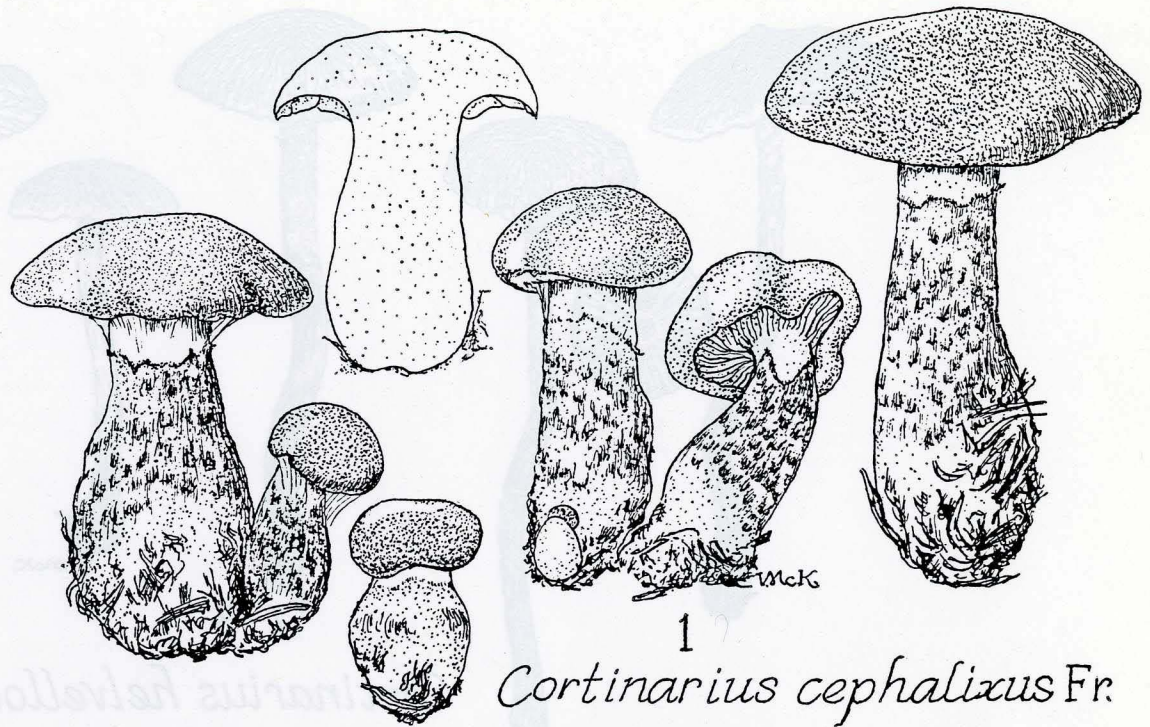
Suillus flavidus (Fries) Singer = *S. umbonatus* Dick & Snell

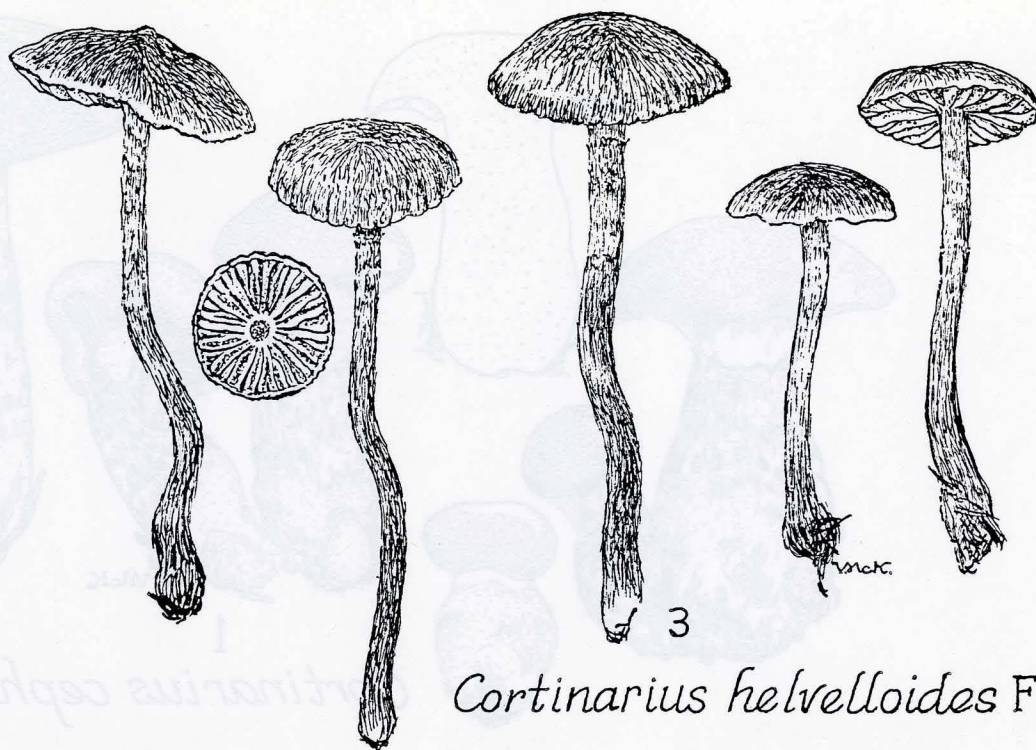
♦ LITERATURE CITED

McKnight, Kent H. 1982. Check-list of Mushrooms and Other Fungi of Grand Teton and Yellowstone National Parks. Moran, Wyoming, Univ. WYO-NPS Res. Center. 21 pp.

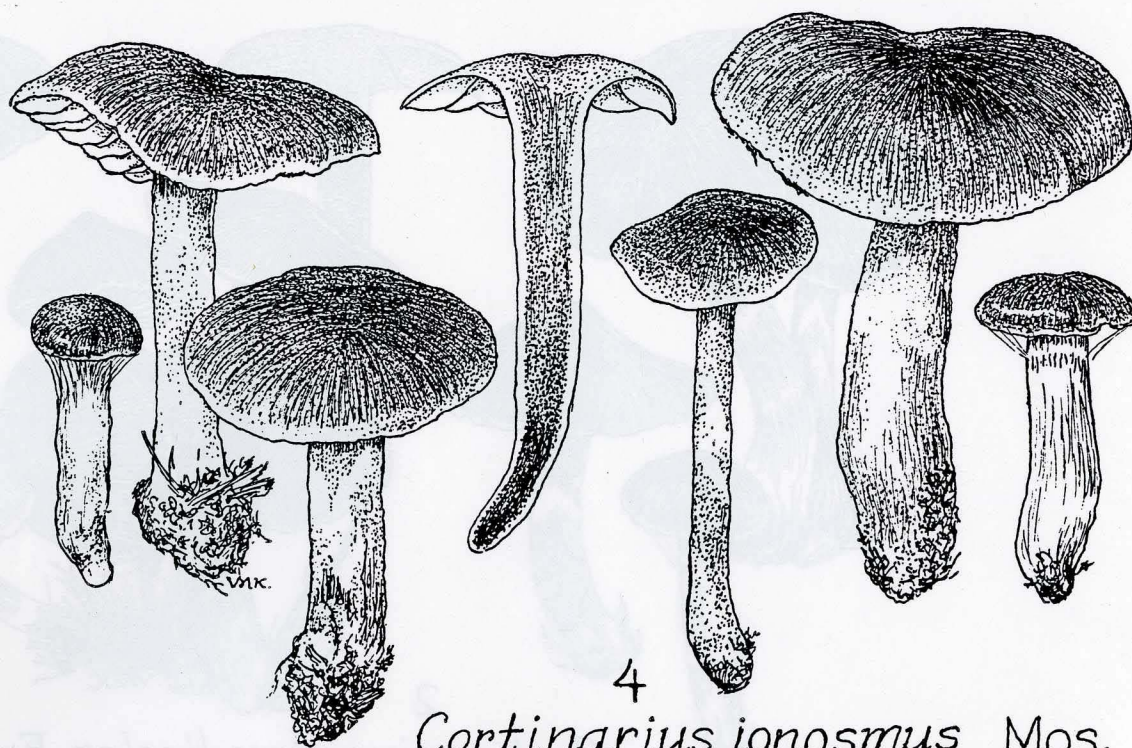
McKnight, K. H., K. T. Harper, and K. B. McKnight. 1986. Taxonomy and Ecology of Ectomycorrhizal Macrofungi of Grand Teton National Park. In Univ. of Wyo.-Nat'l. Park Serv. Res. Cntr. Ninth Ann. Report. 1985. pp. 83-84.

McKnight, K. H. & Moser, M. M. Taxonomy and Ecology of Ectomycorrhizal Macrofungi in the vicinity of Grand Teton and Yellowstone National Parks. In Univ. of Wyo.-Nat'l. Park Serv. Res. Cntr. 17th Ann. Rept., 1993, pp. 77-80.





Cortinarius helvelloides Fr.



Cortinarius ionosmus Mos.