

**AN ANNOTATED INDEX TO SPECIES AND INTRASPECIFIC TAXA OF BOLETES
(MYCOTA: BOLETALES: BOLETACEAE) IN THE CLINTON HERBARIUM OF THE
BUFFALO SOCIETY OF NATURAL SCIENCES**

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INTRODUCTION

The Bolete Collection of the Clinton Herbarium (BUF) was started in 1968 by the senior author at the suggestion of then museum director Fred T. Hall. Collecting continued for the next forty years, resulting in some 3,500 collections representing 210 species of boletes. While the bulk of the collections are from the northeastern states, collections from adjacent states and a few from Florida, Arizona and California are represented. The collection contains 25 type specimens, which were published in five different publications. To make the types more readily accessible to researchers, we provide this annotated index following the format of Halling (1986). The collection of type specimens was transferred to the New York Botanical Garden Herbarium (NY) and about 400 collections of representative species were transferred to the Center for Forest Mycology Research Herbarium (CFMR).

AUSTROBOLETUS

gracilis var. *flavipes* T.J. Baroni, Halling & Both in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshy Pored Mushrooms (Syracuse): p. 79, *281. 2000.

TYPE: United States. New York: Hamilton Co., Raquette Lake, Camp Huntington, 22 Jul 1989, E.E. Both 3137.

gracilis var. *pulcherripes* Both & Bessette in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshy Pored Mushrooms (Syracuse): p. 81, *282. 2000.

TYPE: United States. New York: St. Lawrence Co., Star Lake, 27 Sept 1997, Both 4230.

BOLETUS

abruptibulbus Roody, Both & B. Ortiz, *Mycotaxon* 107:244, *244 (black and white). 2009.

TYPE: United States. Florida: Gulf Co., Cape San Blas, 4 Jan 2005, Both 4588. Description: Bessette et al. (2007), p. 208, *49 [incorrectly as "*Boletus abruptibulbus* W.C. Roody and Both"].

billieae Both, Bessette & W.J. Neill in Bessette, Bessette & Neill, *Mushrooms of Cape Cod and the National Seashore* (Syracuse): p. 32, *107. 2001.

TYPE: United States. Massachusetts: Cape Cod, South Wellfleet, Marconi Station, 15 Sept 1999, Both 4366.

carminiporus Bessette, Both & Dunaway in Bessette, Both, Bessette, Dunaway &

Roody, *Bull. Buffalo Soc. Nat. Sci.* 36:234. 1998.

TYPE: United States. Mississippi: Pike Co., McComb, 6 Aug 1996, *A.E. Bessette 10648*. Description: Bessette et al. (2000), p. 102, *288; Bessette et al. (2007), p. 212, *49.

durhamensis McConnell & Both in Binion et al. (2008), p. 49, *48. Not validly published (type not designated, without Latin diagnosis). United States. North Carolina: Durham, 11 Aug 2001, *Both 4561*.

holoxanthus Both, Bessette & R. Chapm. in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshly Pored Mushrooms (Syracuse): p. 118, *295. 2000.

TYPE: United States. Arizona: Cochise Co., Tex Canyon, 2 Sept 1992, *R. Chapman 1016*.

mahogonicolor Bessette, Both & Dunaway in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshly Pored Mushrooms (Syracuse): p. 127, *299. 2000.

TYPE: United States. Mississippi: Pine Co., McComb, 2 June 1997, *A.E. Bessette 10757*. Description: Bessette et al. (2007), p. 219, *51 (as "*mahogonicolor*").

nobilissimus Both and R. Riedel in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshly Pored Mushrooms (Syracuse): p. 132, *301. 2000.

TYPE: United States. New York: Wyoming Co., Letchworth State Park, 11 Jul 1998, leg. R. Riedel, *E.E. Both 4244*. Molecular sequence: Dentinger et al. 2010.

ochraceoluteus Bessette, Both & A.R. Bessette in Bessette, Both, Bessette, Dunaway & Roody, *Bull. Buffalo Soc. Nat. Sci.* 36:233. 1998.

TYPE: United States. Florida: Osceola Co., near Kissimmee, 24 Nov 1993, *A.E. Bessette 9924*. Description: Bessette et al. (2000), p. 133, *301.

pallidorozeus Both, *Bull. Buffalo Soc. Nat. Sci.* 36:218. 1998.

TYPE: United States. New York: Erie Co., Orchard Park, Chestnut Ridge Park, 18 Aug 1987, *E.E. Both 3026*. Description: Bessette et al. (2000), p. 135, *302–303.

pulchriceps Both, Bessette & R. Chapm. in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshly Pored Mushrooms (Syracuse): p. 143, *306. 2000.

TYPE: United States. Arizona: Cochise Co., Chiricahua Mountains, Aug 1991, *R. Chapman 0945*.

rhodosanguineus Both, *Bull. Buffalo Soc. Nat. Sci.* 36:219. 1998.

TYPE: United States. New York: Erie Co., Orchard Park, Chestnut Ridge Park, 7 Jul 1987, *E.E. Both 2964*. Description: Bessette et al. (2000), p. 148, *307.

roodyi B. Ortiz, D.P. Lewis & Both, *Mycotaxon* 110: 212, *213 (black & white). 2009.

TYPE: United States. West Virginia: Barbour Co. Teter Creek Lake, 27 Aug 1998, *Both 4499* (Holotype; Isotype: CFMR). Color photographs in Bessette et al. (2000), p. 363, *NAB 16, 17.

roseipes Bessette, Both & A.R. Bessette in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshly Pored Mushrooms (Syracuse): p. 149, *308. 2000.

TYPE: United States. New York: Essex Co., John's Brook Lodge, 9 Aug 1997, *A.R. et A.E. Bessette 10738*.

roseolateritius Bessette, Both & Dunaway, *Mycologist* 17(1):15, *16. 2003.

TYPE: United States. Mississippi: Pine Co., McComb, 10 Aug 1999, *Bessette 11025*. Description: Bessette et al. (2007), p. 224, *52.

roseopurpureus Both, Bessette & Roody in Bessette, Roody & Bessette, *North American Boletes*, A Color Guide to the Fleshly Pored Mushrooms (Syracuse): p. 150, *308. 2000.

TYPE: United States. New York: Erie Co., Orchard Park, Chestnut Ridge Park, 27 July 1995, *Both 3765*. Description: Bessette et al. (2007), p. 224, *52.

rufomaculatus Both, *Bull. Buffalo Soc. Nat. Sci.* 36:221. 1998.

TYPE: United States. New York: Erie Co., Orchard Park, Chestnut Ridge Park, 29 Jul 1986, *E.E. Both 2831*. Description: Bessette et al. (2000), p. 155, *310.

viscidocorrugis Both, *Bull. Buffalo Soc. Nat. Sci.* 36:222. 1998.

TYPE: United States. New York: Erie Co., North Collins, Marion Fricano Memorial Park, 10 Aug 1986, *E.E. Both 2860*. Description: Bessette et al. (2000), p. 170, *317.

GASTROBOLETUS

laricinus Singer & Both, *Mycologia* 69(1):60. 1977. Figs. 3–6.

TYPE: United States. New York: Niagara Co., Olcott, 1 Oct 1975, *E. Both 1858* (Holotype: BUF; Isotype: F [incorrectly as FH in the protologue]). Paratypes: 23 Sept 1975, *Both 1856*; 25 Sept 1975, *Both 1857*. Description: Bessette et al. (2000), p. 185 (as *Gastrosuillus*). Molecular sequence: Baura et al. 1992.

SYN.: *Gastrosuillus laricinus* (Singer & Both) Thiers. 1989.

= *Suillus grevillei* (Klotzsch: Fr.) Singer (Kretzer & Bruns, 1997).

PULVEROBOLETUS

lewisii Singer ex Both, *Bull. Buffalo Soc. Nat. Sci.* 36:224. 1998.

TYPE: United States. Texas: Orange Co., Vidor, 22 Jul 1985, *D.P. Lewis 3862* (Holotype: F; Isotype: BUF).

SYN.: *Boletus lewisii* (Singer ex Both) Bessette, Roody & A.R. Bessette, p. 123, *297. 2000.

TYLOPILUS

atratus Both, *Bull. Buffalo Soc. Nat. Sci.* 36:215. 1998.

TYPE: United States. New York: Erie Co. Orchard Park, near Ward Road, 18 Aug 1973, *E.E. Both 1749* (Holotype); 31 Aug 1975, *E.E. Both 1846* (Topotype).

atronicotianus Both, *Bull. Buffalo Soc. Nat. Sci.* 36:216. 1998.

TYPE: United States. New York: Erie Co. Orchard Park, Chestnut Ridge Park, 21 Aug 1996, *E.E. Both 4044*. Description: Bessette et al. (2000), p. 259.

variobrunneus Roody, A.R. Bessette & Bessette in Bessette, Both, Bessette, Dunaway & Roody, *Bull. Buffalo Soc. Nat. Sci.* 36:236. 1998.

TYPE: United States. West Virginia: Barbour Co., Meadowville, Teter Creek Lake, 1 Aug 1996, *A.E. Bessette 10671*. Descriptions: Bessette et al. (2000), p. 273, *346, Binion et al. (2008), p. 247, *246.

violatinctus T.J. Baroni & Both, *Bull. Buffalo Soc. Nat. Sci.* 36:261. 1998.

TYPE: United States. New York: Erie Co., Orchard Park, Chestnut Ridge Park, 7 Aug 1980, *E.E. Both* 2216 (Holotype); 26 July 1980, *E.E. Both* 2190 (Topotype). Description: Bessette et al. (2000), p. 274, *346.

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