

## Matchmaker: Mushrooms of the Pacific Northwest

Below are written descriptions and images of fruiting bodies, mushrooms, of the fungal species in this ectomycorrhizal association. The information is from the web version of the Matchmaker: Mushrooms of the Pacific Northwest (MMPNW) created by the Canadian Forest Service and based on the Windows MMPNW version 1.3 by Ian and Eli Gibson.

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**LATIN NAME(S)** *Pluteus atomarginatus* (Singer) Kuehner Bull. Trimest. Soc. Linn. Lyon 4: 51. 1935; *Pluteus nigrofloccosus* (R. Schulz.) Favre; *Pluteus tricuspoidatus* Vel.

**ENGLISH NAME(S)** black-edged *Pluteus*

**NOTES** diagnostic characters are large dark cap, close gills with fuscous edges, off-white stem overlaid with dark brown fibrils, pinkish brown spore deposit, growth usually on conifers, oval-subelliptic spores, most pleurocystidia with 2-5 apical or subapical horns, horns sometimes forked, clamp connections on pileipellis hyphae profuse; Phillips description is for *P. atomarginatus* (Kon.) Kuehner; found at least WA, OR, ID, also MI, NY, TN, Austria, Czechoslovakia, Breitenbach & Kranzlin give distribution North America, Europe, Asia

**CAP** 4-12cm, obtuse to convex when young, expanding to flat or with a low and broad umbo, margin often somewhat rimose; "benzo brown", "mummy brown" to black; at times radially streaked with blackish fibrils on a "drab" ground color, sometimes with minute appressed squamules, moist, not hygrophanous, (Banerjee), 3-10cm, convex-flattened; blackish brown with darker streaks and fibrils; smooth to slightly squamulose at center, (Phillips), not viscid

**FLESH** thick, cottony, soft; white, (Banerjee), white (Phillips)

**GILLS** flat-arcuate, close, broad (up to 0.9cm), 1-2 tiers of subgills; white becoming dull "pink" (NBS) to "pinkish buff" (Ridgway), margin dark brown to blackish brown (+/- cap color), (Banerjee), crowded, broad; pallid then pink-salmon with edges dark-brown (marginate), (Phillips)

**STEM** 5-12cm x 0.5-1.0cm, equal to evenly widening downward, somewhat flattened, solid; off-white overlaid with dark brown fibrils, not darkening when old, (Banerjee), 5-10cm x 0.5-1.0cm, white with dark brown fibers on surface, (Phillips)

**VEIL** absent

**ODOR** sweetish or fungoid, (Banerjee after Singer 1956), pleasant (Phillips)

**TASTE** not unpleasant, fungoid, (Banerjee after Singer 1956), pleasant (Phillips)

**EDIBILITY** yes (Phillips)

**HABITAT** solitary on conifer logs and debris, rarely reported from soil and deciduous woods, (Banerjee), on fallen conifer logs (Phillips)

**SPORE DEPOSIT** pinkish brown (Banerjee), pink (Phillips)

**MICROSCOPIC** spores 6-7.8(9) x 4.4-5.6 microns, oval-elliptic to lacrymoid (tear-shaped), smooth, content granular, thin-walled, nearly colorless, hilar appendix conspicuous, (Banerjee); basidia 4-spored, (17)28-35 x 7-8.2 microns, colorless; pleurocysti

**NAME ORIGIN** means 'black-margined'

**SIMILAR** *cervinus* but with a brown to dark brown cap and dark brown to black gill edges

**SOURCES** Banerjee(3), Phillips\*, Lincoff(2)\*, Breitenbach(4)\*(as *nigrofloccosus*)

**FAMILY** *Pluteaceae* of Order *Agaricales*