

Mushrooms of Carl Sandburg Home National Historic Site

**A digital survey of mushrooms collected and
documented at the Carl Sandburg Home
National Historic Site, Henderson County,
Flat Rock, NC**

Irene F. Van Hoff

Department of Biology, University of Nebraska at Kearney

2010

Scrambled-egg Slime

Fuligo septica (L.) Wigg.

Photo 1. Semi-fresh specimen, top surface.



Photo 2. Under surface and inside tissue.



Date: 05/15/2010

Habitat: Found growing atop a wood chip pile consisting of a mix of eastern hardwoods, primarily oak (*Quercus* sp.) and white pine (*Pinus strobus*). The chip pile is located in a supply staging area housing chips, gravel, block, and stacked, untreated wood products.

Description: Clumps of bright yellow to tan fuzzy to fluffy matter resembling a recently regurgitated meal. The surface appears finely porous or

sponge-like. The entire organism (visible parts) measures 55 cm across x 12 cm wide x 1-1.5 cm thick. Beneath the outer yellow-tan mushy surface is a bright sulfur yellow layer with a black inner core (see Photo 2). Flies alighting upon it. Strong fungal odor. Subjected to heavy rains in the last 24 hours. Specimen may be slightly beyond its peak.

Identification: A slime mold. Scrambled-egg Slime, *Fuligo septica* (L.) Wigg. Physacaceae, Physarales. A.k.a. Dog Vomit Slime Mold.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 559, description on page 845.

Hairy Parchment

Stereum hirsutum. (Willd. ex Fr.) Pers.

Photo 1. Top surface of specimen.



Photo 2. Fertile surface of specimen.



Photo 3. Wider view showing arrangement of mushrooms.



Date: 05/15/2010

Description: Round to half-round up to 2.5 cm in diameter, flat and thin (~0.5 mm). Color of top surface is white to light gray in center with concentric rings working into tan, brown or black at the outermost margin. Hairy under magnification. Light brown to medium red-brown underside. All noted specimens were smooth on underside (see photo) except the one in the center of the picture. The spines (teeth) on this specimen are brown. This portion is probably a tooth fungi growing adjacent to the other species.

Identification: A polypore, probably Hairy Parchment, *Stereum hirsutum* (Willd. ex Fr.) Parchment Fungus Family. Stereacea, Aphyllophorales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 537, description on page 496. May not be the correct species due to slightly larger size but probably in the same family because it has the distinctive hairy top with a brown smooth under surface.

Crowded Parchment

Stereum complicatum (Fr.) Fr.

Photo 1.



Date: 05/15/2010

Description: Small, dry, shelf fungi, somewhat fan-shaped but not a completely open fan. Color is a variety of browns having horizontal striping down its length with the margin being a very light buff colored stripe. Size is 0.5 cm to 1.2 cm.

Identification: Crowded Parchment, *Stereum complicatum*, (Fr.) Fr.
Stereaceae, Aphyllophorales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 545, description on page 496.

False Turkey Tail

Stereum ostrea (Blume and Nees ex Fr.) Fr.

Photo 1. Upper surface of mushroom.



Photo 2. Fertile surface.



Date: 05/15/2010

Description: Dry shelf fungi, 2.5 - 6 cm in diameter. Fan or shell shaped, some margins are almost lobed. Top surface is densely hairy under magnification. Color is white to buff to brown in concentric circles. Fertile surface is smooth and light beige.

Identification: False Turkey-tail, *Stereum ostrea* (Blume & Nees ex Fr.) Fr., Stereacea, Aphyllophorales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 536, description on page 497.

Cracked Cap Polypore

Phellinus rimosus (Berk.) Pil., a.k.a. *Fomes rimosus*.

Photo 1. Top surface of mushroom.



Photo 2. Fertile surface of mushroom.



Photo 3. Infant mushroom.



Date: 05/15/2010

Description: Top surface is black, crusty and cracked. It is home to moss, algae and lichen. The structure is 22 cm in diameter. Concentric lines marked with cracking throughout. The fertile surface is about 17 cm in diameter. It is light beige primarily, smooth and resembles a pancake, and is a darker brown color where it contacts the top portion. Bottom surface appears porous under magnification with hand lens.

Identification: Cracked Capped Polypore, *Phellinus rimosus* (Berk.) Pil., a.k.a. *Fomes rimosus*. Polyporaceae, Aphyllophorales.

References: The Audubon Society Field Guide to North American Mushrooms, Plate 533, description on page 496. Mushrooms Demystified, Arora, D., 1986, description on page 582.

Little Brown Collybia

Collybia alkalivirens Sing.

Photo 1. Little brown mushroom (LBM).



Date: 05/15/2010

Description: Small, less than 2 cm. Dark tan stem and cap, above and below on fertile surface. Gilled; spacing distant. Gills come up and over the cap margin just a bit. Thin stalk with hairs at base only, the rest being smooth to the convex cap. Cap is 1.2 cm; stalk 3.2 cm.

Identification: A gilled mushroom in the Tricholoma family. Little Brown Collybia, *Collybia alkalivirens* Sing., Tricholomataceae, Agaricales.

References: The Audubon Society Field Guide to North American Mushrooms, Plate 108, description on page 753. Mushrooms Demystified, Arora, D., 1986, description on page 204.

Walnut *Mycena*

Mycena luteopallens (Pk.) Sacc.

Photo 1. Clustered yellow mushrooms.



Photo 2. Underside of clustered yellow mushrooms.



Date: 05/20/2010

Description: Growing in clusters. Very small, height less than 3 cm. Cap: dull yellow-orange, sunken or depressed, smooth with raised scales under magnification, diameter up to 1.4 cm on fully expanded individuals. Stalk: red from the bottom to two-thirds up then abruptly becomes yellow, smooth. Gills: distant, descending or decurrent, paler yellow-tan. Mushrooms turn dark reddish-brown while in decline.

Identification: A gilled mushroom in the Tricholoma family. Walnut Mycena, *Mycena luteopallens* (Pk.) Sacc., Trichomataceae, Agaricales. Species in Mycena generally have a white spore print, attached or descending distant gills, a smooth then hairy stalk, and grow on decaying wood or leaves.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 52, description on page 782. Page 731 describes Tricholoma family.

Common Split Gill

Schizophyllum commune Fr.

Photo 1. Top surface.



Photo 2. Hymenium.



Photo 3. Fully expanded mushrooms; hymenium surface.



Date: 05/20/2010

Description: Small, hairy, fan-shaped to leaf-shaped (lobed), pin head size to 2.5 cm. Top is white with dense hairs/thick fuzz. This fuzz goes all the way to the margin and curls over the edge of the cap. Hymenium is gilled, bisque to very pale pink, and the gills appear to be split or slit down center. Mushroom is very stiff. It is attached to the substrate at the center point where the gills come together, usually in the center of the cap.

Identification: Common Split Gill, *Schizophyllum commune* Fr., Schizophyllaceae, Aphyllophorales.

References: The Audubon Society Field Guide to North American Mushrooms, Plate 487, description on page 493. Mushrooms Demystified, Arora, D., 1986, description on pages 590-591.

Separating Trich

Tricholoma sejunctum (Sow. ex Fr.) Qué.

Photo 1. Mushroom growing from soil.



Photo 2. Gilled hymenium.



Date: 06/01/2010

Description: Medium sized buff mushroom. Cap: buff with darker striations radiating from center out to margin, sunken with subtle knob in center, smooth, margin frayed, 10.8 cm diameter. Hymenium: gills, attached notched, close, cream yellow with red-brown bruising on some. Stalk: equal, cream with dark brownish bruising, centered, smooth and finely fibrous, rings absent, with rhizomorphs, 4.5 cm long and 1.8 cm thick.

Identification: Separating Trich, *Tricholoma sejunctum* (Sow. ex Fr.) Quél., Tricholomaceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 358, and description on page 804.

Hairy Rubber Cup

Galiella rufa. (Schw.) Nannf. & Korf

Photo 1. Brown cup fungi.



Date: 06/01/2010

Description: Cup fungi. Outer cup color is dark brown, velvety, cup round with a rough or beaded margin, diameter 3.5 cm. Inner surface appears smooth, caramel color. Stalk is short, 3 cm., stout and vase shaped, velvet texture, black and spongier than cup.

Identification: *Galiella rufa.* (Schw.) Nannf. & Korf, Sarcosomataceae, Pezizales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 614, and description on page 339.

Witches' Butter

Tremella mesenterica Ret. ex Fr.

Photo 1. Jelly fungi.



Date: 06/01/2010

Description: A yellow-apricot colored jelly, surface slimy, diffuse lobes, attached with short stalk (2-3 mm) from under the bark, jelly about 3 cm.

Identification: Witches' Butter, *Tremella mesenterica* Ret. ex Fr., Tremellaceae, Tremellales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 566, and description on page 385.

Jellied False Coral

Tremellodendron pallidum (Schw.) Burt

Photo 1. Coral-like fungi.



Photo 2. Showing stalk and a shriveled, dried one beside the fresh specimen.



Date: 06/01/2010

Description: Cream colored coral, 3.5 cm diameter, 4 cm height, V-shaped with fused and flattened areas especially toward base.

Identification: Jellied False Coral *Tremellodendron pallidum* (Schw.) Burt, Tremellaceae, Tremellales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 741, and description on page 385.

Fragile Russula

Russula fragilis. (Pers. ex Fr.) Fr.

Photo 1. Cap, pink to apricot.



Photo 2. Stem and gills.



Date: 06/01/2010

Description: Pinkish gilled mushroom. Cap: pink to apricot with yellow-cream at margin, depressed, smooth and dry, 5 cm diameter. Hymenium: Gills, cream white, attached adnate. Stalk: equal, cream white, centered, smooth and slightly fibrous, rings absent, hollow and very fragile, 10 cm long. Spore print white.

Identification: Fragile *Russula*, *Russula fragilis*. (Pers. ex Fr.) Fr., Russulaceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 343, and description on page 702.

Painted Suillus

Suillus pictus (Pk.) A.H.S. & Thiers

Photo 1. Row of mushrooms growing on vegetation island upon a granitic dome.



Photo 2. Close up of cap surface.



Photo 3. Under surface of cap still covered with veil.



Date: 06/02/2010

Description: Cap: red-brown to ochre, convex, texture is scruffy, fibrous with raised scales, 5.8 cm diameter. Hymenium: the lower surface is still covered with an unruptured, grayish white veil, tubes, attached, slightly descending, yellow, bruises brown. Stalk: bulbous, centered, no rings, yellow with reddish-brown striations, fibrous at base, 5 cm.

Identification: *Suillus pictus* (Pk.) A.H.S. & Thiers, Boletaceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 391, and description on page 587.

Marasmius capillaris Morgan

Photo 1. Fragile mushrooms under oak-pine cover.



Photo 2. Tiny parasol.



Photo 3. Growing on mid-rib of dead chestnut oak leaf.



Date: 06/02/2010

Description: Tiny pinwheel mushroom. Cap: cream white with buff center, smooth, depressed, 8 mm diameter. Hymenium: gills, attached, cream white, straight, some forking. Stalk: equal, white, centered, smooth, no ring, 4 cm long.

Identification: *Marasmius capillaris* Morgan, Tricholomataceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms description on page 774. The description for this mushroom is found under the “look-alikes” heading for the Pinwheel Marasmius. Pinwheel Marasmius (*M. rotula*) has a black stalk and grows on decaying wood, while this species has a white stalk and grows on oak leaves.

Firm Russula

Russula compacta Frost

Photo 1. Cap surface.



Photo 2. Gilled surface.



Date: 06/02/2010

Description: Cap: white to yellow with a pink center, depressed, smooth, 6 cm diameter. Hymenium: gills, brittle, attached, straight, white. Stalk: equal, centered, white to pink, smooth, no rings or veil remnants, 7 cm long. Spore print white. Horrible odor when decaying.

Identification: Firm *Russula*, *Russula compacta* Frost, Russulaceae, Agaricales.

References: The Audubon Society Field Guide to North American Mushrooms, description on pages 679-680. Mushrooms Demystified, Arora, page 85, *Russula* key---*Russula compacta*.

Crimped Gill

Plicaturopsis crispa (Pers. ex Fr.) Reid

Photo 1. Upper surface.



Photo 2. Under surface showing split gills.



Date: 06/02/2010

Description: Shelf fungi, very small. Cap: Concentric design in yellow-brown, gray and cream, lobed margin, surface hairy, 2.3 cm across. Hymenium: forked gill-like slits, attached at side, white to cream color. No stalk.

Identification: *Plicatuopsis crispa* (Pers. ex Fr.) Reid, Schizophyllaceae, Aphyllophorales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 472, description on pages 492-493.

Mustard Yellow Polypore

Phellinus gilvus (Schw.) Pat.

Photo 1. Top of small shelf fungi.



Photo 2. Underside.



Date: 06/02/2010

Description: Small tough shelf fungi. Top surface has brown and yellow concentric bands, semi-circular shape, smooth, 3.2 cm wide and 1 cm thick. Bottom surface has tubes, brown and yellow but duller in color than upper surface. Attached at the edge, stalk absent.

Identification: Mustard-yellow Polypore, *Phellinus gilvus* (Schw.) Pat., Polyporaceae, Aphyllophorales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 517, description on pages 475. If not this species, it is at least a polypore.

Schizophyllaceae

Quél.

Photo 1. Cap or top surface.



Photo 2. Hymenium is gilled.



Date: 06/02/2010

Description: Small white shelf fungi, very firm and thick, not leafy. Upper surface is white, fuzzy to hairy, appears as a shell with a scalloped edge, 2 cm wide. Underside is gill-like, pinkish-beige. Stalk is very small, curved, white, at edge of cap, fuzzy, 3 mm.

Identification: A stalked polypore. Definitely appears to have hymenium surface structures like those of the Schizophyllum family Qué.

References: The Audubon Society Field Guide to North American Mushrooms, description of Schizophyllaceae on page 492. Mushrooms Demystified, Arora, D., 1986, description on pages 590-591.

Rosy Russula

Russula rosacea (Pers. ex Secr.) Fr.

Photo 1. Cap with depressed center.



Photo 2. Side view.



Photo 3. Gilled hymenium with curved club shaped stalk.



Date: 06/10/2010

Description: Cap: slightly tacky, sunken, smooth, pinkish-red, margin fragile, 8 cm. Hymenium: gills, straight and knife-like, brittle, cream colored, attached and slightly descending, close. Stalk: rosy-red, thick, smooth, partially hollow, equal with taper at base, rhizomorphs present, no rings. Spore print: light yellow.

Identification: Rosy Russula, *Russula rosacea* (Pers. ex Secr.) Fr., Russulaceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms, Plate 334, description on pages 705-706.

Slime Mold

Photo 1. Bright scarlet mold; appearance of melted plastic.



Photo 2. Under surface is white.



Date: 06/10/2010

Description: A scarlet red slime, upper surface tacky, 12 cm long (largest portion), underside white and fibrous fuzzy, 2-3 mm thick.

Identification: A slime mold.

Cortinariaceae
R. Heim ex Pouzar

Photo 1. Stout ,little mushrooms.



Date: 06/10/2010

Description: Tiny, heavy stalked mushrooms, up to 1 cm height. Cap: convex, orange, smooth and dry, up to 5 mm diameter. Hymenium: gilled, descending, distant. Stalk: light orange, club shaped, no rings or veil, smooth.

Identification: Gilled mushroom with attached gills. Cortinariaceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms, description on pages 610-620.

Chrome-Footed Bolete

Tylopilus chromapes (Frost) A.H.S. & Thiers

Photo 1. A little brown pore mushroom.



Photo 2. Showing tube surface of hymenium.



Date: 06/10/2010

Description: Cap: color reddish-brown with concentric rings of light brown toward the cap margin, flat to slightly depressed, veil remnants absent, smooth surface, 2 cm across, no odor. Hymenium: tubes are flat, free, cream yellow. Stalk: club, centered, rings absent, pinkish-brown to yellow at base, smooth and shiny, 5.5 cm long, hollow but fibrous inside stalk. Spore print clear to white. Flesh did not stain blue or any dark color.

Identification: Chrome-Footed Bolete, *Tylopilus chromapes* (Frost) A.H.S. & Thiers, Boletaceae, Agaricales. Assuming genus *Tylopilus* due to

pore color. Possibly *T. chromapes* due to yellow stalk base, pinkish cap, non-blue or dark staining, and eastern U.S. location.

References: Mushrooms Demystified, Arora, pages 512-516 (*Boletus* key), and page 532 (*Tylopilus* key)---*Tylopilus chromapes*. The Audubon Society Field Guide to North American Mushrooms, Plate 410, description on pages 591-592.

(Possibly) **Tawny Almond Waxy Cap**, *Hygrophorus bakerensis* A.H.S. & Hes. or **Gray Almond Waxy Cap**, *Hygrophorus agathosmus* Fr. (cap margin inrolled).

Photo 1. Small, gilled mushroom.



Photo 2. Showing stem and gills.



Date: 06/10/2010

Description: Cap: light brown, convex, smooth and slightly sticky, veil remnants absent, slight almond odor, 2.5 cm diameter. Hymenium: gills, close, attached and slightly descending, buff, narrow, branching, tough gills. Stalk: club, pinkish-brown, centered, smooth, no ring, solid inside, 3.5 cm long. Spore print clear to white.

Identification: Gilled mushroom without veil. May belong to the Hygrophorus family with respect to the white spore print, divergent gills, and tough (or waxy) gills. Possibly Tawny Almond Waxy Cap, *Hygrophorus bakerensis* A.H.S. & Hes. or Gray Almond Waxy Cap, *Hygrophorus agathosmus* Fr. (cap margin inrolled), Hygrophoraceae, Agaricales.

Reference: Audubon Field Guide, Plates 273 and 360, description of family and species on pages 654-655.

American Caesar's Mushroom

Amanita caesarea (Fr.) Schw.

Photo 1. Immature shiny-capped mushroom emerging from cup.



Photo 2. Mature mushroom showing yellow gills, stem and cup.



Photo 3. View of cap with radially lined margin.



Date: 06/10/2010

Description: Cap: Orange, shiny, sticky, convex with knob in center, some veil remnants as scales on top. Hymenium: gilled, yellow, gills close to crowded, knife-like, free. Stalk: pale orange, smooth with fibrous patches, pendant ring absent on this specimen, emerging from saclike cup. Spore print white.

Identification: Except for the absence of the pendant ring, this is exactly American Caesar's Mushroom, *Amanita caesarea*. The False Caesar's Mushroom is a look-alike but has a bulbous base with no cup. I think the ring has been lost on this specimen. *Amanita caesarea* (Fr.) Schw., Amanitaceae, Agaricales.

References: Audubon Field Guide, Plates 142 and 681, description on page 528. Mushrooms Demystified, Arora, description on page 284, and page 266 for the *Amanita* key. Arora's *Amanita* key says that annulus ring on stalk is usually present "but not always" (see numbers 4 and 5 on key).

Red-cracked Bolete

Boletus subtomentosus L.

Photo 1. Cracked cap with white in the cracks.



Photo 2. Yellow pore surface, white flesh.



Date: 06/11/2010

Description: Cap: cracked, dry surface, rosy maroon in color, convex, no veil remnants, mild odor, 8 cm diameter. Hymenium: porous, tubes, attached at stalk, yellow, white flesh inside, tubes flat. Stalk: equal, centered, yellow to red-brown, smooth, no ring, 4 cm length. Spore print yellow.

Identification: Red-cracked Bolete, probably *Boletus subtomentosus* L., as it lacks red in the crack caps as seen above. Boletaceae, Agaricales. Reference: Audubon Field Guide, Plate 413, description on page 567.

Orange-latex Milky

Lactarius deliciosus (L. ex Fr.) S.F. Gray

Photo 1. Orange mushrooms growing out from under an overturned stump.



Photo 2. Gilled underside with divergent gills.



Date: 06/11/2010

Description: Cap: deep orange, convex to flat to depressed, smooth and shiny, no veil remnants, 16 cm across, exudes a milky juice when broken, growing in a cluster. Hymenium: gills, spacing distant, divergent, shallow, orange, descending the stalk. Stalk: orange, curved, off center, equal, no rings, smooth except where chewed

and pitted by age, 8 cm long. Mushroom turns greenish where insects have fed on it. No spore print taken.

Identification: Orange-latex Milky, *Lactarius deliciosus* (L. ex Fr.) S.F. Gray, Russulaceae, Agaricales. Reference: Audubon Field Guide, Plate 312, description on pages 683-684.

Platterful Mushroom

Tricholomopsis platyphylla (Fr.) Singer

Photo 1. Large, floppy-capped mushroom.



Photo 2. Stalks growing from oak log. Note rhizomorphs.



Photo 3. Showing very deep cut and wavy gills. Very cool.



Date: 06/11/2010

Description: Cap: cream to beige with striations and large cracks, flesh white, convex, smooth and dry (between cracks), no veil remnants, 17 cm across. Hymenium: gills an amazing 2.5 cm deep! Dark cream, attached, notched, close arrangement, not divergent, wavy. Stalk: club shaped with rhizomorphs, centered, cream, smooth, no ring, hollow, 12 cm long. Spore print white.

Identification: Platterful Mushroom, *Tricholomopsis platyphylla* (Fr.) Singer, Tricholomataceae, Agaricales.

Reference: Audubon Field Guide, Plate 265, description on pages 807-808.

Pear Puffball

Lycoperdon pyriforme Schaeff. ex Pers. (now *Morganella pyriformis*)
Morganella pyriformis (Schaeff.:Pers.) Kreisel & D. Krüger.

Photo 1. Puffball mushroom with peeling outer layer and dark olive-brown spores inside.



Photo 2. Puffball on short stalk, with rhizomorphs.



Date: 06/11/2010

Description: Puffball exterior is cream, turning light brown as it matures and begins to peel back. Spherical, texture is urchin-like, 4cm diameter. Spores are dark olive-brown. Stalk: vase-shaped, centered, cream to buff, hollow but stuffed with fluff, 1.5 cm long.

Identification: Some species of puffball, *Lycoperdon* spp., possibly Pear Puffball, *Morganella pyriformis* Schaeff. ex Pers., Agaricaceae,

Agaricales. Identification based on the characteristic of the “string-like strands” attached to substrate.

Reference: Peterson Field Guide, Mushrooms, McKnight and McKnight, Plate 46, description on pages 354-357.

Ornate-stalked Bolete

Boletus ornatipes Pk.

Photo 1. Large pillow-like mushroom on heavy stalk.



Photo 2. A young one showing fading white bloom on cap and lower stalk.

Date: 06/11/2010

Description: Cap: bold dark orange-yellow, convex, smooth center with cracks around edges, no veil remnants, no odor, 10 cm diameter. Hymenium: tubes with flat surface, free of stalk, orange-yellow surface, sulfur yellow flesh. Stalk: equal with rhizomorphs, thick, yellow to brown, fibrous striations, hollow, 3.5 cm long, no ring. Spore print greenish-yellow.

Identification: Ornate-stalked Bolete, *Boletus ornatipes* Pk., Boletaceae, Agaricales.

Reference: Audubon Field Guide, Plate 418, description on page 570.

Yellowish-white Melanoleuca

Melanoleuca alboflavida (Pk.) Murr.

Photo1. Wet film on cap of this mushroom.



Photo 2. Pure white gills and stalk. Veil remnants at base.



Date: 06/11/2010

Description: Tall, thin white mushroom. Cap: cream-white with light brown knobbed center, slimy and smooth, no veil remnants, no odor, 3-3.5 cm diameter. Hymenium: gills, free, narrow, primarily straight, white, crowded. Stalk: bulbous, cream, smooth, centered, woolly at base but no noted ring, fibrous stalk, filled, 10 cm height. Spore print white.

Identification: Uncertain. Similar to Yellowish-white *Melanoleuca*, *Melanoleuca alboflavida* (Pk.) Murr., Tricholomataceae, Agaricales. *M. alboflavida* does not have rings or scales, and has a moist cap, as does the collected specimen.

Reference: Audubon Field Guide, Plate 235, description on page 776. Another possibility is Destroying Angel, *Amanita virosa*. Amanitaceae, Agaricales. The collected specimen did not have patches on cap or a ring on the stalk; all else present.

Destroying Angel

Amanita virosa Secr.

Photo 1. Cap with scales and slightly depressed center.



Photo 2. Showing pendant ring and saclike cup.



Date: 06/11/2010

Description: Cap: mostly white with darkened center, convex with slight depression, smooth with scales and sticky, 3.5 cm diameter. Hymenium: gills, white, free, close, narrow. Stalk: fibrous, filled, coming from cup, cottony at base, ring with pendant veil remnants at top of stalk. Spore print is white.

Identification: Destroying Angel, *Amanita virosa* Secr. Amanitaceae, Agaricales.

Reference: Audubon Field Guide, Plate 123 and 124, description on page 551.

Tacky Green Russula

Russula aeruginea Fr.

Photo 1. Green tinged cap of mushroom growing from edge of water bar in trail.



Photo 2. Showing crowded gills and club stalk.



Date: 06/11/2010

Description: Cap: greenish on buff background, convex, smooth to velvety and tacky, 7 cm diameter. Hymenium: gills, cream to buff, attached and slightly descending, brittle, straight, close to crowded. Stalk:

stuffed, flesh white, club shaped, without rings. Spore print pale orange.

Identification: *Russula aeruginea* Fr., Russulaceae, Agaricales.

Reference: Audubon Field Guide, Plate 357, description on page 697.

Yellow-footed Chanterelle

Cantharellus xanthopus

Photo 1. Chanterelles growing in loose cluster.



Photo 2. Undersurface and white flesh.



Date: 06/23/2010

Description: Clustered ruffled mushrooms. Cap: light orange-yellow, leafy funnel-shaped, smooth, dry, no veil remnants, 7 cm across, odor is mild and delicious. Hymenium: gills, very narrow—ore like ridges, divergent, descending stalk, pale yellow-orange, distant. Stalk: pale orange, thick funnel shaped, smooth, positioned to the side, solid, no veil remnants.

Identification: Yellow-footed Chanterelle, *Cantharellus xanthopus*, Cantharellaceae, Aphyllophorales.

Reference: Audubon Field Guide, Plate 435, description on pages 393-394.

Jack O'Lantern

Omphalotus olearius (D.C.) Sing.

Photo 1. Clustered bright orange mushrooms.



Photo 2. Gilled surface with beetles feeding.



Date: 06/23/2010

Description: Orange mushroom cluster. Cap: pumpkin orange, convex, no veil remnants, smooth, dry, mild odor, up to 12 cm across. Hymenium: gills, descending, orange, narrow, straight, crowded. Stalk: equal, centered, orange, smooth but fibrous and ridged, hollow (from beetles?), up to 12 cm height. Note: in this part of the country, Jack O'Lantern is most frequently a very rich pumpkin orange color as opposed to yellowish-orange.

Identification: Jack O' Lantern, *Omphalotus olearius* (D.C.) Sing.,
Omphalotaceae, Agaricales.

Reference: Audubon Field Guide, Plate 310, 426, 483, description on page 787.

Berkeley's Polypore

Bondarzewia berkeleyi (Fr.) Bond. & Sing.

Photo 1. Photo illustrating size, ridged surface and concentric patterns.



Photo 2. White, porous hymenium with toasty-brown margin.



Photo 3. Close-up of rough “bumpy” surface.



Photo 4. White pores, irregularly shaped.



Date: 06/23/2010

Description: Rosette-like cluster with basically one main stem. Cap: ridged radially with concentric rings of brown bumps. Margin brown, overall a cream to buff color, 3 foot in diameter, some smaller (18", 20" and 12" also growing under this particular tree). These mushrooms came up last year as well. Hymenium: tubes, cream white, flat surface, irregularly shaped. Stalk: this, vase shaped, central position, cream, smooth, velvet texture. White spore print. Fruitflies feeding.

Identification: Polypore. Possibly Berkeley's Polypore, *Bondarzewia berkeleyi* (Fr.) Bond. & Sing, or a related species. Polyporaceae, Aphyllophorales. Note: I saw it when it was just emerging and it did look just like the "hand" in Plate 477.

Reference: Audubon Field Guide, Plates 476 and 477, description on page 447.

Malodorous Lepiota

Lepiota cristata (Bolton) P. Kumm.

Photo 1. Cap of small, scale-capped mushroom (other photos did not turn out).



Date: 06/28/2010

Description: Small mushroom with cap only 2 cm across. Cap: cream with dark gray-brown raised scales, like small pyramids in concentric pattern, depressed, cap splits at margin, stinky odor. Hymenium: cream buff, gills, deep, knifelike, straight, attachment free to seceding, distant. Stalk: bulbous, rooting with a thick cone-shaped "tap-root", bulb has concentric rings of scales similar in appearance to scales on the cap, centered, no ring noted, cream color except for scales, 2.5 cm height (including root-like structure). Spore print white.

Identification: Gilled, veiled mushroom. Close to Malodorous Lepiota, *Lepiota cristata*. Malodorous Lepiota, *Lepiota cristata* (Bolton) P. Kumm, Agaraceae, Agaricales. Field guide says there can be variation, but this was fairly close in description.

Reference: Audubon Field Guide, Plate 177, description on page 517.

Slimy-veil Limacella

Limacella glioderma (Fr.) R. Maire

Photo 1. Showing veil remnants on stalk and at base, and the bulbous cup.



Photo 2. Showing gills and fibrous stalk. Insects have been feeding on this.



Date: 06/28/2010

- Description:** Cap: bell-shaped, reddish-brown, no veil remnants on top of cap, surface smooth and sticky, mild odor, 4.5 cm diameter.
Hymenium: gills, free, white, narrow, straight, crowded, remnants of veil still covering gilled surface. Stalk: equal, growing from a bulb or cup, universal veil remnants at base, stalk color buff to pink, scruffy toward base with veil remnants clinging, solid, 10 cm long.
- Identification:** Slimy-veil Limacella, *Limacella glioderma* (Fr.) R. Maire, Amanitaceae, Agaricales.
- Reference:** Audubon Field Guide, Plate 141, description on page 554.

Velvet-footed Pax

Paxillus atrotomentosus (Batsch)

Photo 1. Top view. Note how center is off-center, and the cap is growing pressed up against stump. The stalk is growing from base of stump.



Photo 2. Underside. Note gill attachment to the velvety, dark maroon-brown, very stout stalk.



Photo 3. Looking straight down into splitting old stump. Note the foot of the forming mushroom reaching way back into the crack of the stump, and the fingers growing to the outside of the cracks. Very cool.



Date: 06/28/2010

Description: Cap: buff to brown, flat to convex shelf-like cap with slightly depressed center, smooth, dry, no veil remnants, large, 23 cm across. Hymenium: gills, straight, knifelike, strong, attached and very slightly descending stalk, close, light buff-yellow. Stalk: very stout and thick club, much thicker at base, off centered, no ring, solid, 6 cm height, 5 cm thick at base, maroon brown and velvety. Spore print yellow.

Identification: Velvet-footed Pax, *Paxillus atrotomentosus* (Batsch), Paxillaceae, Agaricales.

Reference: The Audubon Society Field Guide to North American Mushrooms,
Plate 322, description on pages 670-671.