

Fungi Group Foray to Mortimer Picnic Ground, Bunyip, 10 May 2009

Mortimer Picnic Ground and Nature Trail is a regular site for our forays – the moist gully is usually rich with fungi and the surrounding heathy forest often has a different variety of species. The gully was indeed the best area this time, but the heathy forest appeared to be too dry for many fungi.

A new find for the group was *Clitocybe kenkulunea*, found in the grassy clearing under *Acacia dealbata*. The cap was brownish grey, and hygrophanous (dries to pale buff). Gills were concolorous with the cap, adnate to slightly decurrent with three tiers of lamellulae. Stipe was creamy white, smooth, hollow, cylindrical, central. Possibly the most distinctive feature was the spicy/aniseed smell.

A whitish *Lepiota sp.* was interesting for its cap with pale blue scales and a darker blue grey centre with tinges of orange; the gills were also a very pale blue and free. The stipe was creamy white towards the base, becoming pale blue in the upper two thirds, with a creamy white ring. These colours are uncommon, but we could not identify the species.

Another unusual find was a small mushroom with a lilac cap and stem, found in the bare soil underneath a footbridge. It had a silky fibrillose cap with broad shallow umbo and a very light wispy cortina attached to the margin. The gills were pallid with a hint of violet. The stipe was thin and swollen at base. At first glance this looked like one of the many small lilac/mauve *Cortinarius* that seem impossible to identify to species. However, no rusty brown spore deposit was visible. Something about the pallid gills and the fibrils on the cap reminded me of an *Inocybe* that I had seen in South Australia last year, so I decided to collect a specimen. When I examined the spores under the microscope the spores were smooth and ellipsoid – clearly this was not a *Cortinarius* (which has rough spores). When put in KOH the spores were dextrinoid (i.e. they stained an orange brown colour). The final proof was that the cystidia had crystals on top. This was *Inocybe violaceocaulis*, a species recently described from W.A. by Matheny and Bougher in 2005.

It is also interesting to note what we didn't find – *Banksiomyces macrocarpus* and *Cortinarius rotundisporus* have been found here for the last three years, but not this time.

Of the more attractive finds were *Cyptotrama aspratium* and a colourful red *Dermocybe sp.* with cinnabar gills, a pallid stipe with a reddish band and pale orange (somewhat pinkish) basal mycelium. A cluster of pretty pale pinkish-mauve ascomycete discs, which were quite tough and gelatinous, was found on an old fallen tree fern trunk.

A total of 87 species were recorded, 8 of which are Fungimap target species.

Thanks to Virgil Hubregtse for recording the field notes and to Jurrie and Virgil for the microscopical analyses of some of the specimens.

Paul George

FNCV FUNGI GROUP FORAY 10 May 2009

Bunyip State Forest, Mortimer Picnic Ground and nature trail

Vegetation: Wet sclerophyll forest – Mountain Grey Gum *Eucalyptus cypellocarpa*

GPS reading at car park: 37° 59' 06'' S 145° 35' 41'' E

No = sequential numbering of species as they were found; T = Fungimap Target Species; S = specimens taken for further examination

See *Fungi Down Under* p # = *Fungi Down Under: the Fungimap guide to Australian Fungi* by Pat Grey and Ed Grey, 2005

See *The Fungi CD 08*

See Fungi Group CD 2005

See *Fuhrer* # = *A Field Guide to Australian Fungi* by Bruce Fuhrer, 2005

See *McCann p. #* = *Australian fungi illustrated* by I R McCann, 2003

See *Phillips p. #* = *Mushrooms* by Roger Phillips, 2006

Microscopic descriptions by Virgil and Jurrie Hubregtse

No.	S	T	Type	Species	Description	Substrate
67			gill	Agaric 'greenish cap'	Cap diameter c. 20 mm, convex, greenish with yellowish centre; gills white, adnate; stipe white. A sturdy fungus, not fragile.	ground
84			gill	Agaric 'shaggy stipe'	Cap cream with yellowish centre, gills creamy white; stipe creamy white, shaggy; annulus creamy white	ground amongst woody debris
17			gill	Agaricus sp. 'pale cap'	Cap broadly convex. pale; gills brown, free; stipe and annulus pale. Similar build to a field mushroom	soil and leaf litter under eucalypt
25			gill	Agaricus sp. 'narrow stipe'	Cap planate, pinkish with dark yellow centre; gills brown, free; stipe creamy white, narrow.	ground
48			gill	Agaricus sp. 'rough stipe'	Cap large, pink; gills brown, free; stipe and annulus white. Stipe very rough below the annulus.	ground

72			gill	Agaricus sp. 'small'	Cap pinkish brown with radial fibrils and dark brown centre; stipe and annulus creamy white. Looks similar to, but smaller than, <i>Leucoagaricus rubrotinctus</i> as illustrated in Fuhrer #165, but the gills are pink, later turning brown.	ground
			gill	Amanita 'grey'	Cap convex, grey-brown with small thin patches of white veil remnants, smooth, no striations on margin; gills white, free; stipe and annulus white	ground
78			gill	Amanita ananiceps	Cap diameter 75 mm, broadly convex, warty; annulus right at top of stipe; stipe has swollen base See Fuhrer #6	ground
15			gill	Amanita farinacea	See The Fungi CD 08	in soil and leaf litter under euc
74			gill	Amanita 'mealy grey'	Cap convex, grey-brown, with lumpy, grey, mealy remnants of the universal veil on much of the surface; gills white, free; stipe white	ground
34		T	gill	Armillaria luteobubalina	Seen in many places along the track. See Fungi Down Under p. 23, The Fungi CD 08	wood
53			coral	Artomyces (Clavicornia) colensoi	A fine, small, light brownish coral. The peppery taste is not immediate – as it is in <i>A. piperata</i> – but delayed. Cf Fuhrer #307	log
37		T	asco	Ascocoryne sarcoides	See Fungi Down Under p. 111, The Fungi CD 08	tree trunk
63	coll.		asco	Ascodiscs	Pinkish-mauve discs, tough, gelatinous. Spores 6-7 x 3-4 microns, septate, 8 per ascus; asci 65-70 x 5-6 microns; paraphyses similar in length to the asci, threadlike, about 3 microns wide, some with slightly expanded tips. J.H.	treefern trunk
			asco	Ascomycete	Small, convoluted grey fungus that shed a small cloud of spores when touched	on same piece of dead wood as <i>Xylaria castorea</i>
53	coll.		leather	Byssomerulius corium	See The Fungi CD 08, Fuhrer #	dead twig

				From Ed Grey: this maze-like stuff was in sheets on dead wood and reflexed as well. Fertile surface: cream-fawn to whitish, consisted of raised, maze-like structures (Cleland says reticulato-porous!). Upper surface on reflexed part: light brown near wood then whitish, covered with short, fine hairs, radially wrinkled. Spore print white, spores ca. 6 x 2.5 microns, ellipsoidal (Fuhrer 7 x 5, Cleland 5.5 - 8.5 x 2.2 3.5).	
56		asco	Bisporella citrina	See <i>The Fungi CD 08</i>, Fuhrer #470	dead wood
16	coll.	jelly	Calocera sinensis	Yellow spikes with simple form, less than 10 mm long. Two samples of small, spathulate fruit-bodies near the simple spikes were collected and confirmed to be this species. Clamp connections present.	bark on stump
23		asco	Cheilymenia coprinaria	See <i>The Fungi CD 08</i>; Fuhrer #473 (as <i>C. raripila</i>)	wombat dung
43		asco	Chlorociboria aeruginascens	See <i>The Fungi CD 08</i>; Fuhrer #474	dead wood
27	coll.	gill	Clitocybe kenkulunea	Cap diameter 35 mm, brownish grey, planate, smooth, hygrophanous (dries to pale buff). Margin incurved. Gills concolorous with cap, adnate to slightly decurrent; three tiers of lamellulae. Stipe 40 x 5 mm, creamy white, smooth, hollow, cylindrical, central. Smells spicy/aniseed. Spores 6-7 x 3-4 microns, white, smooth. Basidia c. 20-25 x 5-6 microns, 4-spored, clavate. Sterigmata 3 microns long. Clamp connections present. J.H.	on ground in grass near <i>Acacia dealbata</i>
61		gill	Collybia eucalyptorum	See <i>The Fungi CD 08</i>, Fuhrer #36	rotting wood
9		gill	Conocybe filaris	See <i>The Fungi CD 08</i>, Fuhrer #38	on ground amongst grass, presumably attached to buried wood

76			gill	Cortinarius sp.	Cap diameter 55 mm, convex, golden brown; gills light brown; stipe thick, creamy white with spores caught in the remains of the cortina	ground
36			gill	Cortinarius sp. 'lavender-topped stipe'	Cap diameter 115 mm, convex, wavy, dark brown; gills brown; stipe diameter 17 mm, widens toward base, very fibrillose, brown but lavender-coloured at the top	ground
79			gill	Cortinarius sp. 'lilac'	Cap diameter 50 mm, convex, lilac with yellow-brown centre and pale margin; gills lilac, stipe lilac. Two growing together.	ground
24			gill	Cortinarius sp.	Cap diameter c. 25 mm, convex, brown, darker in centre; stipe pallid, with two distinct rings of fibrils; rusty brown spores caught in the fibrils.	ground in litter
51			gill	Crepidotus nephrodes	Whitish fan, finely villose. Gills greyish white. Spore print fairly dark brown. Spores 6 x 6 microns, globose, rough. Basidia 26 x 9 microns, 4-spored, clavate. V.H. 2008. See Fuhrer #65	log
15			gill	Crepidotus variabilis	See The Fungi CD 08; Fuhrer #66	wood
21			asco	"Cudioniella pezizoidea"	See The Fungi CD 08; See Fuhrer #484 Spores 23-26 microns long. This fungus needs further investigation to establish its true identity. J.H..	dead twig
49		T	gill	Cyptotrama aspratium	See Fungi Down Under p. 33; The Fungi CD 08	log
82			gill	Cystolepiota sp. aff sistrata	See The Fungi CD 08; Fuhrer #70	eucalypt leaf litter
71			gill	Dermocybe sp. 'large cinnabar cap'	Cap cinnabar; gills orange-brown; Stipe cream, with fibrils and crimson mycelium stain. Stipe widens toward bulbous base, hollow	ground
32			gill	Descolea recedens	See The Fungi CD 08; Fuhrer #81	on ground amongst woody debris
70			gill	Entoloma sp. 'pale buff'	Cap diameter 25 mm, conico-convex, pale buff; gills and stipe pale buff; white mycelium at base	ground

26			gill	Entoloma sp.	Cap diameter 25 mm, convex, brown, striate, with dark depressed centre; gills pink; stipe dark brownish grey	ground
80			gill	Entoloma sp.	Cap planate, buff, centre slightly depressed; gills pink; stipe grey-brown with an olive tinge,.	ground in leaf litter under <i>Eucalyptus obliqua</i>
			bolete	Fistulinella mollis	See <i>The Fungi CD 08</i>; Fuhrer #291	
75			gill	Galerina 'hypnorum' group	See <i>The Fungi CD 08</i>; Fuhrer #91	mossy log
30			bracket	Ganoderma australe	See <i>The Fungi CD 08</i>; Fuhrer #390	log
69			gill	Gymnopilus allantopus	See <i>The Fungi CD 08</i>	mossy log
1		T	gill	Gymnopilus junonius	See <i>Fungi Down Under</i> p. 37; <i>The Fungi CD 08</i>	at base of eucalypt
64			gill	Gymnopilus sp.	Cap diameter to 112 mm, convex, fibrillose, yellowish brown, darkens as it ages or dries out; gills mostly sinuate with a decurrent tooth, some adnate, close, yellow with a brown tinge, several tiers of lamellulae; stipe 50-70 x 7-10 mm, widens toward base, central, orange-brown. Spores c 7 x 5 microns; basidia 23 x 6 microns, 4-spored. J.H. 2008	rotting log
81			gill	Hebeloma sp,	Cap diameter 25 mm, yellowish; gills pink, stipe cream. A young specimen.	ground under eucalypts
46	coll.		gill	?Hemimycena sp.	Cap, gills and stipe all creamy white Cap has a yellowish tinge, especially in the centre. Stipe c. 30 mm long. Spores 9-10 x 4-5 microns; basidia 20-25 x 7-8 microns, 4-spored, clavate; cystidia pointy, with narrow, tapering ends. J.H.	rotting wood
58			jelly	Heterotextus peziziformis	'Yellow Jelly Bells' See <i>The Fungi CD 08</i>; Fuhrer #451 (as <i>H. miltinus</i>)	dead twig
8	coll.		gill	Hygrocybe rodwayi	See Fuhrer #126	ground amongst grass near eucalypt
16			gill	Hypholoma fasciculare	See <i>The Fungi CD 08</i>; Fuhrer #137	log

52	coll.		asco	Hypoxylon sp.	Purple crust. Cf. Hypoxylon aff. rubiginosum Fuhrer #502 From Ed Grey: purple sheets on dead log. Surprisingly this was the same as the material collected at the Otways! Did manage to get some spores by standing a piece on a slide and they were quite large and black: 13.2 - 14.4 x 7.2 microns, ellipsoidal (cf Fuhrer ca 10 x 5, Fungi of Switzerland 10 - 12 x 4.5 - 5.5). Even allowing for my rusty technique, this does seem to give weight to the idea of a different species. More work needed!	log
87	coll.		gill	Inocybe violaceocaulis	Silky fibrillose cap with broad shallow umbo. Very light wispy cortina. Gills pallid with a hint of violet. Stipe swollen at base. Spores smooth, ellipsoid, orange-brown in KOH, thick walls, mean = 8.5 * 5.4 µm. Cystidia thick-walled, with crystals on top. PG.	Wet bare soil, underneath footbridge.
2			gill	Laccaria spp.	Cf. Fuhrer #144-146	ground amongst grass, leaf litter, or on bare ground
54			asco	Lachnum pteridophyllum	See Fuhrer #504	treefern rachises
50			asco	Lanzia lanaripes on	See Fuhrer #507	mossy log
57			gill	Lepiota sp. 'Radial brown scales'	Cap diameter 40 mm, radially split, covered in radially arranged brown scales; stipe, gills and annulus creamy white	ground nr Hazel
41	coll.		gill	Lepiota sp. 'Pale blue'	Cap diameter 24 mm, convex, scaly, pale blue with dark centre; gills very pale blue, free; stipe c. 65 x 4 mm, widens toward base, central, bent, top two thirds pale blue but lower third is creamy white; annulus creamy white, one sixth of the way down the stipe. Spores 8x5 microns, smooth. Basidia 24-26 x 8-9 microns; sterigmata c. 5 microns long. V.H.	ground

42			gill	Lepiota sp.,	Cap 35 mm diameter, light brown, scaly, with dark brown centre, ring halfway down stipe. Stipe, free gills and annulus all white	ground
59			gill	Leucoagaricus ooliekirrus	See Fuhrer #164; Fungi Group CD 2005 Cap surface peeling inwards from margin of this specimen	ground
60			gill	Leucocoprinus sp.	Cap pale with dark scaly centre Cf. Phillips p. 135(h)	ground
4			gill	Macrolepiota clelandii	See The Fungi CD 08; Fuhrer #174, 175	
44			gill	Marasmius alveolaris	See The Fungi CD 08; Fuhrer #179	bark
39			gill	Marasmius crinisequi	See The Fungi CD 08	bark
33			gill	Marasmius elegans	'Velvet Parachute'. See Fungi Down Under p. 44; The Fungi CD 08	ground
17			gill	Marasmius sp.	Cap diameter 7 mm, plane with dimple in middle (omphaloid), sort of bulges between the main gills, white, dry. Gills - stem attachment damaged, but there appears to be no collar, adnate (main gills), lamellulae 1 series, and some only come a little way from the cap margin, quite widely spaced ? 6-7 per quarter (with lamellulae in between) Stipe c. 35 mm long, width less than 1 mm, appears to taper slightly towards base, pale near gills, becoming quite yellow then darker at base, almost ochre.	grass?
10			puffball	Morganella subincarnata	See The Fungi CD 08	wood
11			gill	Mycena austrofilopes	See The Fungi CD 08; Fuhrer #190	in grass near eucalypts
12			gill	Mycena cystidiosa	white thread-like criniform stipes See The Fungi CD 08; Fuhrer #194	
14			gill	Mycena epipterygia group	See The Fungi CD 08; Fuhrer #195	log
13			gill	Mycena kuurkacea	See The Fungi CD 08; Fuhrer #199	
5			gill	Mycena viscidocruenta	Tiny, red species with slimy stipe. See Fungi Down Under p. 50; The Fungi CD 08	litter

73			gill	Omphalina (Lichenomphalia)-like fungus	Cap diameter 6 mm, convex, light grey-brown to buff; darker, very slight dimple in centre; translucent striate. Margin wavy. Gills arched, decurrent; concolorous with cap; distant. Sample fruit-body had 10 gills and one tier of lamellulae. Stipe 14 x 1 mm, curvy in many specimens; concolorous with cap; densely covered in fine hairs (visible with x10 hand lens); cylindrical, central, solid, tapers toward base. No odour. Spore print no produced. A small, tough, springy fungus. Gregarious. Growing in moss on a granite rock. If not totally dried out (i.e. dead), reconstitutes when submerged in water – a handy feature if you live on a mossy rock! Didn't look as dark as McCann p. 56, middle; cf. Fuhrer # 223; Phillips 79 f. Spores 6 x 4 microns, ellipsoidal to pip-shaped. Basidia c. 35 x 5 microns. Sterigmata 3 microns long. V.H. 2008	mossy granite boulder
66		T	gill /pore	Panellus pusillus	See <i>Fungi Down Under</i> p. 64; <i>The Fungi CD 08</i>	log
86			bracket	Piptoporus australiensis	'Curry Punk' See Fuhrer # 413	log
65			leather	Podoscypha petalodes	See Fuhrer #436	base of eucalypt trunk
3			gill	Psathyrella asperospora in litter near eucalypts	See <i>The Fungi CD 08</i>; Fuhrer #244	
55			gill	Psathyrella sp.	Cap brown, planate, fibrillose; gills brown; stipe white with a little mealy texture	ground in leaf litter under <i>Acacia melanoxylon</i>
77			gill	Psathyrella sp.	Cap conico-convex, brown, with pendant veil remnants (cf Fuhrer #246 <i>P. pennata</i>), brown gills and pallid, fragile stipe	ground
22			gill	Resupinatus-like grey gilled caps on log. No stipe		
28	coll.		gill	Rhodocollybia butyracea	See <i>The Fungi CD 08</i>; Fuhrer #34	ground in grass near <i>Acacia</i>

						<i>dealbata</i>
6			gill	Rickenella fibula	See <i>The Fungi CD 08</i>; Fuhrer #250	green moss, also brown moss <i>Thuidopsis sparsa</i>
18			bracket	Rigidoporus laetus	See Fuhrer #420	eucalypt trunk
31			gill	Russula ?persanguinea	Colour had been washed out of cap. gills white, stipe white Cf. Fuhrer #258	ground under eucalypts
62			gill	Russula sp.	Cap diameter 30 mm, brown	ground
45			gill	Russula sp.,	Cap purplish pink; gills and stipe white	ground
19		T	gill	Schizophyllum commune	See <i>The Fungi CD 08</i>; Fuhrer #261	Acacia stump
85			earthball	Scleroderma sp.	Yellow earth ball starting to crack on the surface Cf. Fuhrer #339	ground
20			leather	Stereum illudens on dead twig		dead twig
68		T	leather	Stereum ostrea on dead wood	See <i>Fungi Down Under p. 79</i>; <i>The Fungi CD 08</i>	dead wood
29			gill	Stropharia semiglobata	See <i>The Fungi CD 08</i>; Fuhrer #264	wombat dung
83			gill	Tephrocybe aff rancida	See Fuhrer #265	camp fire site
19, 40			asco	Trichoderma sp. aff. viride	Green powdery cushions. This is an anamorph, the conidial form of Hypocrea sp. (Tom Volk, http://botit.botany.wisc.edu/toms_fungi/nov2004.html)	dead wood
35		T	gill	Tubaria rufofulva	Burgundy Wood Tubaria'. At the top of the steps near the toilet, and on pieces of wood along the nature trail. See <i>Fungi Down Under p. 58</i>; <i>The Fungi CD 08</i>	dead wood
38				Tubaria sp.	Cap brown, gills yellow-brown, stipe reddish brown with white fibrils; fibrillose white annulus	ground in litter

47		asco	Xylaria castorea	Black spikes cf Fuhrer #535 (<i>X. polymorpha</i>)	dead wood
			<i>OTHER FUNGI FOUND IN</i>	THE VICINITY OF MORTIMER NATURE TRAIL	
		gill	Agaric	Cap diameter c. 15 mm, convex, pale brown, darker in centre; gills brown, decurrent, serrate; stipe brown, lighter at top	dead grass stem
		gill	Amanita ochrophylla	See Fuhrer #11, 12	ground
		gill	Phylloporus rhodoxanthus	See <i>The Fungi CD 08</i>; Fuhrer #280	ground
		pore	Polyporus melanopus	Pored fungus with brown cap, white pores and black stipe	log in creek