Perth Urban Bushland Fungi

Maida Vale Reserve Fungi Report 2006

Written and produced by
Neale L. Bougher, Roz Hart and Sarah de Bueger
Department of Environment and Conservation – Perth Urban Bushland Fungi Project

Group about to set out

Close examination of the fungi

Many people participated

Talking about the fungi collected

PUBF Website : www.fungiperth.org.au

Urban Bushland Council WA Inc
lotterywest supported
Government of Western Australia Department of Environment and Conservation
Western Australian Naturalists Club

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Advice about the identity of the fungi was provided by Dr Neale Bougher, Mycologist, organisational support was provided by Roz Hart and Sarah de Bueger.

Photos and field assistance by PUBF participants

PUBF Website : **www.fungiperth.org.au**

Forty seven people attended the Perth Urban Bushland Fungi (PUBF) Project walk held at Maida Vale Reserve on 16 July 2006. The walk was organised with the assistance of the Environmental staff of the Shire of Kalamunda. There were 5 groups led by Tanja Lambe and Sandra Thomas; Kevn Griffiths and Roz Hart; Phylis Robertson and Joe Froudist; Jolanda Keeble; Mark Brundrett and Neil Goldsborough, all volunteer Fungi Leaders from the PUBF Project. Mycologist Neale Bougher identified and talked about the fungi collected at the conclusion of the walk.

This event has allowed us to produce the **first ever inventory of fungi for Maida Vale Reserve.** This list represents a very small portion of the fungi which are likely to be present in this bushland. Due to the nature of fungi, which fruit irregularly and intermittently, it will be necessary to conduct many such surveys over different days in the fungi season as well as in successive years to produce an accurate inventory of the fungi present in this valuable urban bush reserve.

Maida Vale Fungi: 16 July 2006

Unusually low rainfall in the period prior to this survey greatly affected the abundance and diversity of fungi observed in the survey. However, 26 species of fungi were recorded. These include decomposer fungi such as the Golden Wood Fungus - *Gymnopilus allantopus*, the Miniature Chimney Pots – *Henningsomyces candidus*, and the Fleshy Cup Fungus – *Aleurina ferruginea*. Some beneficial mycorrhizal fungi were also found such as the Funnel Pax - *Austropaxillus infundibuliformis*, a Fibre Cap - *Inocybe* species, and the Erupting Russula - *Russula erumpens.* Another notable species found during the survey is *Fistulina hepatica* - the Beefsteak Fungus. It is called this due to the appearance and texture of the thick, fleshy-juicy, red-marbled flesh of its tongue-shaped fruit bodies. The Beefsteak Fungus fruits on the trunk of large trees such as jarrah. It discolours the wood, producing brown speckles and blotches, but does not usually cause the wood to become crumbly and soft.

Only one truffle fungus (fungi with underground fruit bodies) was found during this survey in Maida Vale Reserve – *Descomyces* sp. Far more truffle species are likely to occur in the Reserve. Truffle fungi have special ecological significance linking Flora, Fauna and Fungi. The truffles form beneficial mycorrhizal associations with plants such as eucalypts. They also emit odours to attract native mammals which dig them up and use them as a food resource. The animals in turn disperse the truffle spores.

Some of the fungi recorded in this survey remain unidentified pending further collections or more detailed comparative analyses. Many of the fungi could only be identified to genus level. This is because detailed taxonomic examinations are yet to be completed, or perhaps some are undescribed species. Far more fungi are likely to occur in Maida Vale Reserve than the 26 species recorded in this inaugural survey. Because of the unpredictable nature of fungi fruiting, surveys need to be conducted over many years in order to capture the biodiversity of fungi present in any given area.

Life Mode Key: M = Mycorrhizal, S = Saprotropic (Decomposer), S/P = Saprotrophic and Parasitic **Life Mode** is probable only as many fungi have not been tested.

Field Book Page number refers to the Perth Urban Bushland Fungi Field Book which is available for downloading from the project website at www.fungiperth.org.au

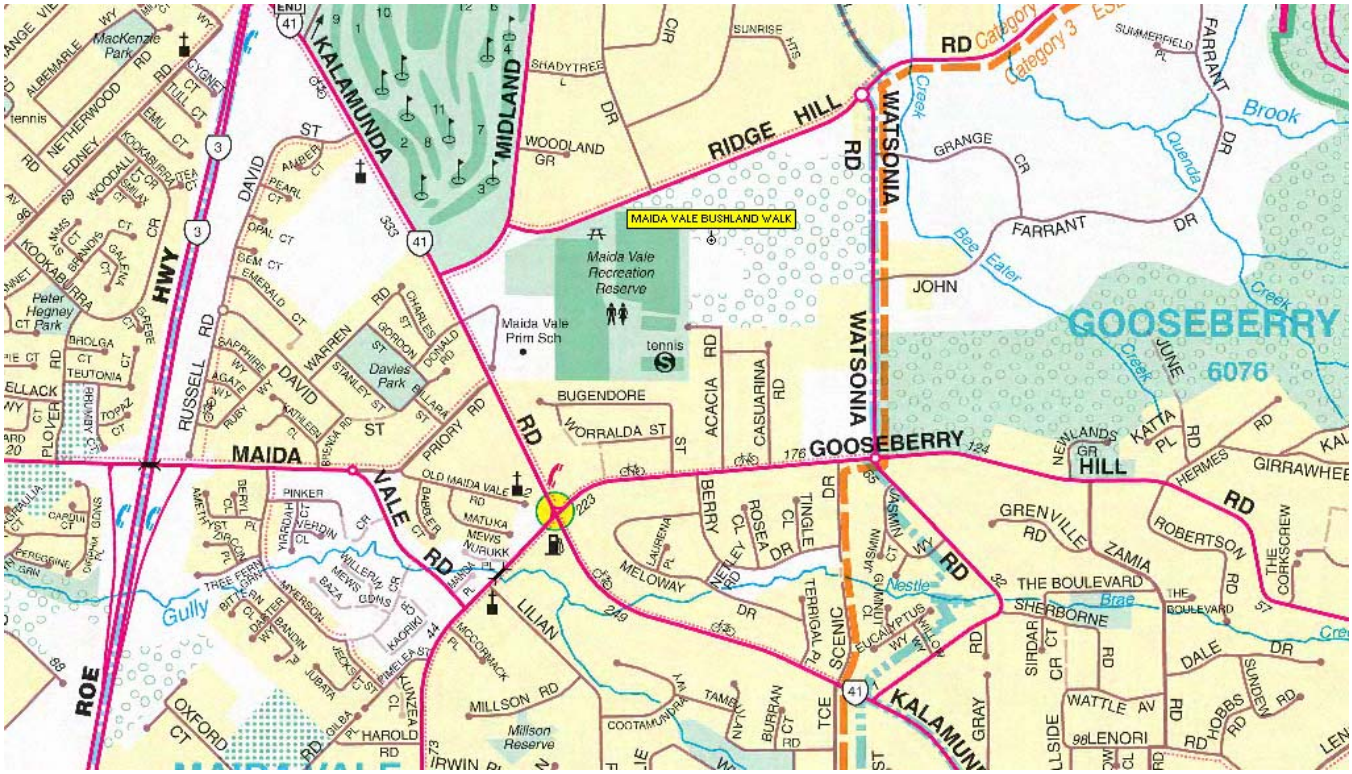
Scientific Name	Common Name	Form	Habitat	Life Mode	Field Book Page No	Specimen ID
Aleurina ferruginea	**Fleshy Cup Fungus**	cup	litter/ground	S	A-1	2506
***Amanita* sp.**		mushroom	litter/ground	M		2534
Austropaxillus infundibuliformis	**Funnel Pax**	mushroom	litter/ground	M	J-25	2499
Coltricia cinnamomea	**Tough Cinnamon Fungus**	mushroom	litter/ground	S	N-1	2519, 2526
Coltriciella dependens		mushroom	litter/ground	S		2489, 2527
***Cortinarius* sp.**		mushroom	litter/ground	M		2517, 2525

***Dermocybe* sp.**		mushroom	litter/ground	M		2504
***Descomyces* sp.**		truffle	underground/under litter	M		2524
***Entoloma* sp.**		mushroom	litter/underground	S		2531
Fistulina hepatica	**Beefsteak Fungus**	bracket	dead wood	P		2495, 2500
Gymnopilus allantopus	**Golden Wood Fungus**	mushroom	dead wood	S	J-15	2490, 2493, 2508, 2511
Henningsomyces candidus	**Miniature Chimney Pots**	tubular	dead wood	S	R-1	2497, 2523
***Inocybe* sp.**		mushroom	litter/ground	M		2513, 2514, 2516
Laccaria lateritia	**Brick Red Laccaria**	mushroom	litter/ground	M	J-17	2532
Lactarius eucalypti		mushroom	litter/ground	M		2520
***Lepiota* sp.**		mushroom	litter/ground	S		2518
***Mycena* sp.**		mushroom	litter/ground	S		2491, 2494, 2502, 2505, 2515, 2533
***Phellinus* sp.**		bracket	dead wood	S		2496, 2503
***Psathyrella* sp.**		mushroom	litter/ground	S		2530
Pycnoporus coccineus	**Scarlet Bracket Fungus**	bracket	dead wood	S	N-8	2512
***Ramaria* sp.**		coral	litter/ground	M		2521
Russula erumpens	**Erupting Russula**	mushroom	litter/ground	M	J-28	2510
***Schizopora* sp.**		resupinate	dead wood	S		2509
Undetermined Bracket Fungus		bracket	dead wood	S		2492
Undetermined Discomycete		cup	dead wood	S		2528, 2529
Undetermined Resupinate		resupinate	dead wood	M		2522, 2487, 2488, 2498, 2501, 2507

Permanent Voucher Collections

Two of the fungi collected during this event were deposited in the WA Herbarium fungi collection with the following details:

Russula erumpens	Voucher ID: E 8362	Specimen ID: 2510
Fistulina hepatica	Voucher ID: E 8363	Specimen ID: 2500



StreetExpress Map showing the location of Maida Vale Reserve, Bush Forever Site 316.

Aerial photo showing the colour coded tracks of the five groups on 16 July 2006.

Georeferenced Track and Photos

Tanja Lambe and Sandra Thomas'group, 16 July 2006.

The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

04 Undetermined Resupinate

Photographer Tanja Lambe Specimen ID: 2487

Growing on dead allocasuarina wood within litter in woodland.
Latitude: -31° 56' 49.27" Longitude: 116° 1' 47.18"
Easting:408302 Northing: 6465025 Zone: 50
Date: 16 Jul 2006 opt Image MV64_172TL04

	**07 *Coltriciella dependens*** Photographer Tanja Lambe Specimen ID: 2489 Growing on dead allocasuarina wood within litter in woodland. Latitude: -31° 56' 49.67" Longitude: 116° 1' 47.52" Easting:408311 Northing: 6465013 Zone: 50 Date: 16 Jul 2006 opt Image MV64_172TL07
	**08 *Gymnopilus allantopus*** **Golden Wood Fungus** Photographer Tanja Lambe Specimen ID: 2490 Growing on dead wood within litter in woodland. Latitude: -31° 56' 50.03" Longitude: 116° 1' 48.07" Easting:408325 Northing: 6465002 Zone: 50 Date: 16 Jul 2006 opt Image MV64_172TL08
	**09 *Mycena* sp.** Photographer Tanja Lambe Specimen ID: 2491 Growing on wood under leaf litter in woodland. Latitude: -31° 56' 52.37" Longitude: 116° 1' 49.62" Easting:408367 Northing: 6464931 Zone: 50 Date: 16 Jul 2006 opt Image MV64_172TL09
	**11 Undetermined Bracket Fungus** Photographer Tanja Lambe Specimen ID: 2492 Growing on dead wood in woodland. Latitude: -31° 56' 52.66" Longitude: 116° 1' 49.80" Easting:408371 Northing: 6464922 Zone: 50 Date: 16 Jul 2006 opt Image MV64_172TL11
	**13 *Gymnopilus allantopus*** **Golden Wood Fungus** Photographer Tanja Lambe Specimen ID: 2493 Growing within litter in woodland. Latitude: -31° 56' 53.08" Longitude: 116° 1' 49.62" Easting:408367 Northing: 6464909 Zone: 50 Date: 16 Jul 2006 opt Image MV64_172TL13
	**14 *Mycena* sp.** Photographer Tanja Lambe Specimen ID: 2494 Growing on dead wood in woodland. Latitude: -31° 56' 54.09" Longitude: 116° 1' 49.84" Easting:408373 Northing: 6464878 Zone: 50 Date: 16 Jul 2006 opt Image MV64_172TL14

18 *Fistulina hepatica* **Beefsteak Fungus**
Photographer Tanja Lambe Specimen ID: 2495

Growing on burnt stump of coppiced jarrah, amongst litter in woodland.
Latitude: -31° 56' 54.54" Longitude: 116° 1' 49.06"
Easting:408353 Northing: 6464864 Zone: 50
Date: 16 Jul 2006 opt Image MV64_172TL18

19 *Phellinus* sp.
Photographer Tanja Lambe Specimen ID: 2496

Growing on dead allocasuarina wood.
Latitude: -31° 56' 54.74" Longitude: 116° 1' 48.86"
Easting:408347 Northing: 6464857 Zone: 50
Date: 16 Jul 2006 opt Image MV64_172TL19

21 *Henningsomyces candidus* **Miniature Chimney Pots**
Photographer Tanja Lambe Specimen ID: 2497

Growing on dead wood in woodland.
Latitude: -31° 56' 55.27" Longitude: 116° 1' 48.21"
Easting:408330 Northing: 6464841 Zone: 50
Date: 16 Jul 2006 opt Image MV64_172TL21

22 Undetermined Resupinate
Photographer Tanja Lambe Specimen ID: 2498

Growing on dead fallen jarrah branch in woodland.
Latitude: -31° 56' 55.36" Longitude: 116° 1' 48.08"
Easting:408327 Northing: 6464838 Zone: 50
Date: 16 Jul 2006 opt Image MV64_172TL22

28 *Austropaxillus infundibuliformis* **Funnel Pax**
Photographer Tanja Lambe Specimen ID: 2499

Growing under sheoak litter in woodland.
Latitude: -31° 56' 51.42" Longitude: 116° 1' 46.16"
Easting:408276 Northing: 6464959 Zone: 50
Date: 16 Jul 2006 opt Image MV64_172TL28

Georeferenced Track and Photos

Kevn Griffiths and Roz Hart's group, 16 July 2006.

08 Undetermined Resupinate

Photographer Roz Hart Specimen ID: 2501

Growing on dead wood in jarrah woodland.
Latitude: -31° 56' 46.06" Longitude: 116° 1' 47.20"
Easting:408301 Northing: 6465124 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH08

11 *Fistulina hepatica* **Beefsteak Fungus**

Photographer Roz Hart Specimen ID: 2500

Growing on live jarrah tree in jarrah woodland.
Latitude: -31° 56' 46.10" Longitude: 116° 1' 47.24"
Easting:408302 Northing: 6465123 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH11
Vouchered into WA Herbarium E8363

17 *Mycena* sp.
Photographer Roz Hart Specimen ID: 2502

Growing on live sheoak.
Latitude: -31° 56' 47.65" Longitude: 116° 1' 46.31"
Easting:408278 Northing: 6465075 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH17

18 *Phellinus* sp.
Photographer Roz Hart Specimen ID: 2503

Growing on live sheoak in *Casuarina fraseriana* woodland.
Latitude: -31° 56' 47.65" Longitude: 116° 1' 46.31"
Easting:408278 Northing: 6465075 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH18

19 *Dermocybe* sp.
Photographer Roz Hart Specimen ID: 2504

Growing next to dead stump in woodland.
Latitude: -31° 56' 46.71" Longitude: 116° 1' 45.62"
Easting:408260 Northing: 6465104 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH19

22 *Mycena sp.*
Photographer Roz Hart Specimen ID: 2505

Growing on dead wood in casuarina and jarrah woodland.
Latitude: -31° 56' 47.30" Longitude: 116° 1' 45.78"
Easting:408264 Northing: 6465086 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH22

23 *Aleurina ferruginea* **Fleshy Cup Fungus**
Photographer Roz Hart Specimen ID: 2506

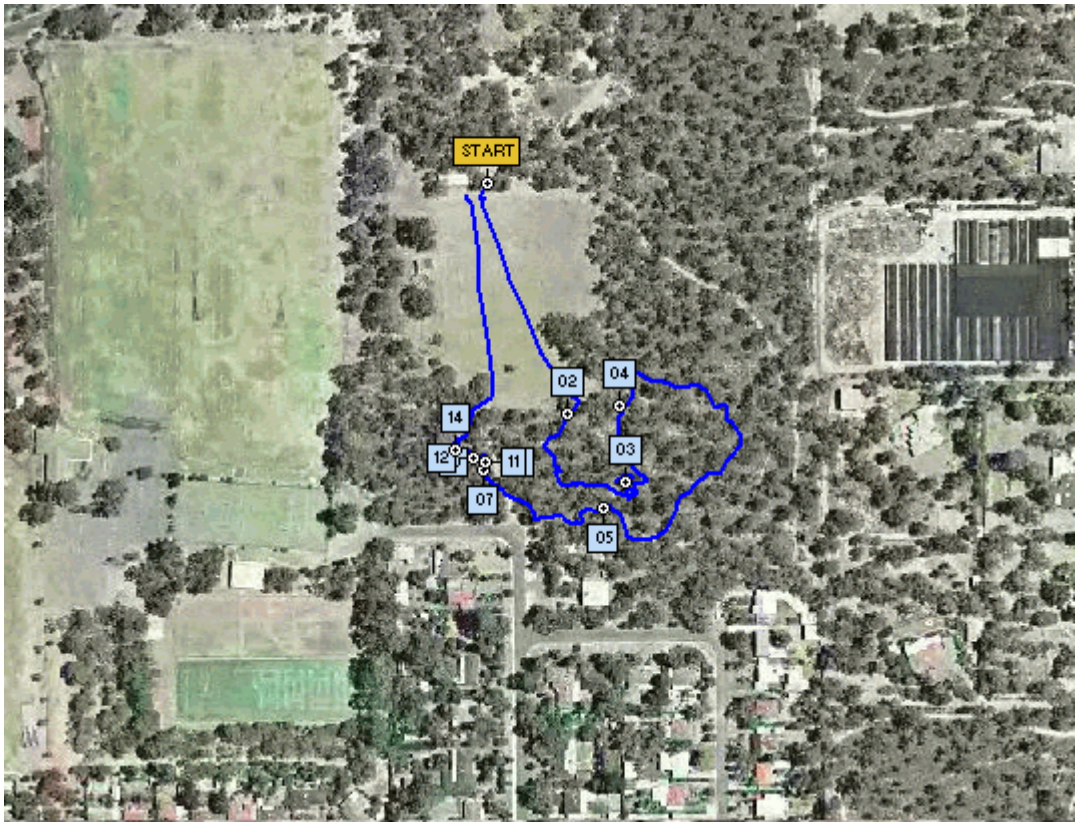
Growing on dead marri nut under xanthorrhoea in woodland.
Latitude: -31° 56' 46.03" Longitude: 116° 1' 45.89"
Easting:408267 Northing: 6465125 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH23

28 Undetermined Resupinate
Photographer Roz Hart Specimen ID: 2507

Growing on dead wood under marri in woodland.
Latitude: -31° 56' 45.85" Longitude: 116° 1' 45.84"
Easting:408266 Northing: 6465130 Zone: 50
Date: 16 Jul 2006 opt Image MV64_173RH28

Georeferenced Track and Photos

Phylis Robertson and Joe Froudist's group, 16 July 2006.



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

	**02 *Gymnopilus allantopus*** **Golden Wood Fungus** Photographer Joe Froudist Specimen ID: 2508 Growing on bark in litter in jarrah woodland. Latitude: -31° 56' 53.05" Longitude: 116° 1' 44.44" Easting:408231 Northing: 6464908 Zone: 50 Date: 16 Jul 2006 opt Image MV64_174JF02
	**03 *Schizopora* sp.** Photographer Joe Froudist Specimen ID: 2509 Growing within *Allocasuarina fraseriana* litter in jarrah and sheoak woodland. Latitude: -31° 56' 54.41" Longitude: 116° 1' 45.71" Easting:408265 Northing: 6464867 Zone: 50 Date: 16 Jul 2006 opt Image MV64_174JF03

04 *Russula erumpens* **Erupting Russula**
Photographer Joe Froudist Specimen ID: 2510

Growing in sand under jarrah and *A. fraseriana* in woodland.
Latitude: -31° 56' 52.91" Longitude: 116° 1' 45.61"
Easting:408261 Northing: 6464913 Zone: 50
Date: 16 Jul 2006 opt Image MV64_174JF04
Vouchered into WA Herbarium E8362

07 *Pycnoporus coccineus* **Scarlet Bracket Fungus**
Photographer Joe Froudist Specimen ID: 2512

Growing on live jarrah, in jarrah woodland.
Latitude: -31° 56' 54.15" Longitude: 116° 1' 42.48"
Easting:408180 Northing: 6464874 Zone: 50
Date: 16 Jul 2006 opt Image MV64_174JF07

08 *Inocybe* sp.
Photographer Joe Froudist Specimen ID: 2513

Growing in sand amongst litter in jarrah woodland.
Latitude: -31° 56' 54.00" Longitude: 116° 1' 42.53"
Easting:408181 Northing: 6464879 Zone: 50
Date: 16 Jul 2006 opt Image MV64_174JF08

11 *Mycena* sp.
Photographer Joe Froudist Specimen ID: 2515

Growing within litter in jarrah woodland.
Latitude: -31° 56' 53.99" Longitude: 116° 1' 42.53"
Easting:408181 Northing: 6464879 Zone: 50
Date: 16 Jul 2006 opt Image MV64_174JF11

12 *Inocybe* sp.
Photographer Joe Froudist Specimen ID: 2516

Growing within litter in hakea woodland.
Latitude: -31° 56' 53.92" Longitude: 116° 1' 42.28"
Easting:408174 Northing: 6464881 Zone: 50
Date: 16 Jul 2006 opt Image MV64_174JF12

14 *Cortinarius* sp.
Photographer Joe Froudist Specimen ID: 2517

Growing within litter in jarrah and sheoak woodland.
Latitude: -31° 56' 53.74" Longitude: 116° 1' 41.84"
Easting:408163 Northing: 6464887 Zone: 50
Date: 16 Jul 2006 opt Image MV64_174JF14

Georeferenced Track and Photos

Jolanda Keeble's group, 16 July 2006.

The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

	**03 *Lepiota* sp.** Photographer Jolanda Keeble Specimen ID: 2518 Growing in dead moss in marri, jarrah, sheoak woodland. Latitude: -31° 56' 47.07" Longitude: 116° 1' 48.25" Easting:408329 Northing: 6465093 Zone: 50 Date: 16 Jul 2006 opt Image MV64_175JK03
	**06 *Coltricia cinnamomea*** **Tough Cinnamon Fungus** Photographer Jolanda Keeble Specimen ID: 2519 Growing in sand in marri, jarrah, sheoak woodland. Latitude: -31° 56' 46.84" Longitude: 116° 1' 48.18" Easting:408327 Northing: 6465101 Zone: 50 Date: 16 Jul 2006 opt Image MV64_175JK06

10 *Ramaria* sp.

Photographer Jolanda Keeble Specimen ID: 2521

Growing in sand amongst litter in marri, jarrah, sheoak woodland.
Latitude: -31° 56' 46.75" Longitude: 116° 1' 49.04"
Easting:408350 Northing: 6465103 Zone: 50
Date: 16 Jul 2006 opt Image MV64_175JK10

11 Undetermined Resupinate

Photographer Roz Hart Specimen ID: 2522

Growing on dead wood in marri, jarrah, sheoak woodland.
Latitude: -31° 56' 46.86" Longitude: 116° 1' 49.28"
Easting:408356 Northing: 6465100 Zone: 50
Date: 16 Jul 2006 opt Image MV64_175JK11

12 *Henningsomyces candidus* Miniature Chimney Pots

Photographer Roz Hart Specimen ID: 2523

Growing on bark in marri, jarrah, sheoak woodland.
Latitude: -31° 56' 46.86" Longitude: 116° 1' 49.25"
Easting:408355 Northing: 6465100 Zone: 50
Date: 16 Jul 2006 opt Image MV64_175JK12

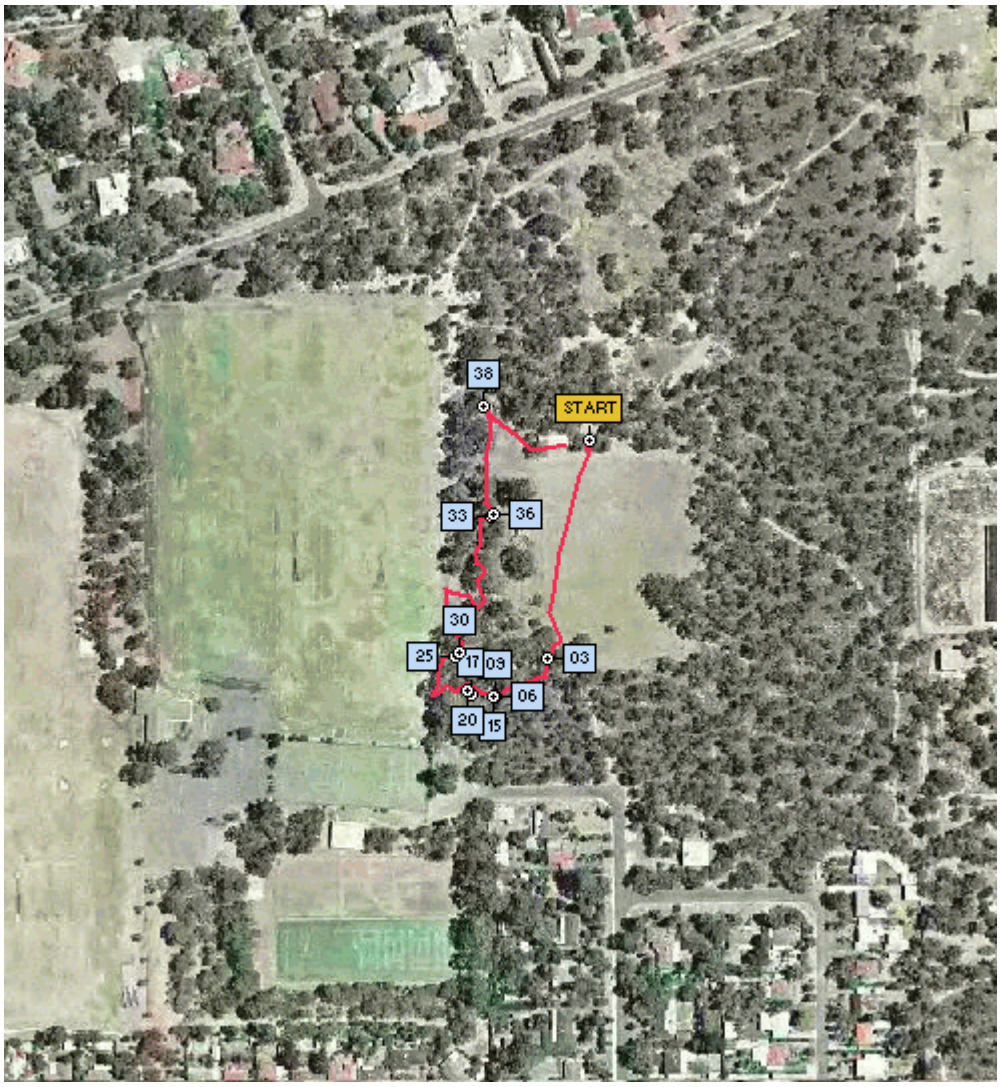
13 *Lactarius eucalypti*

Photographer Jolanda Keeble Specimen ID: 2520

Growing in sand amongst litter in marri, jarrah, sheoak woodland.
Latitude: -31° 56' 46.75" Longitude: 116° 1' 49.04"
Easting:408350 Northing: 6465103 Zone: 50
Date: 16 Jul 2006 opt Image MV64_175JK46

Georeferenced Track and Photos

Mark Brundrett and Neil Goldsborough's group, 16 July 2006.



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

03 *Descomyces* sp.
Photographer Neil Goldsborough Specimen ID: 2524

Growing in top soil under litter in *Eucalyptus marginata* and *Acacia longifolia* forest.
Latitude: -31° 56' 52.74" Longitude: 116° 1' 41.66"
Easting:408158 Northing: 6464917 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG03

06 *Cortinarius* sp.
Photographer Neil Goldsborough Specimen ID: 2525

Growing on dead wood in jarrah, casuarina, nuytsia and balga forest.
Latitude: -31° 56' 53.48" Longitude: 116° 1' 40.47"
Easting:408127 Northing: 6464894 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG06

09 *Coltricia cinnamomea* Tough Cinnamon Fungus
Photographer Neil Goldsborough Specimen ID: 2526

Growing within moss, at the base of dead jarrah tree.
Latitude: -31° 56' 53.45" Longitude: 116° 1' 40.50"
Easting:408127 Northing: 6464895 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG09

15 *Coltriciella dependens*
Photographer Neil Goldsborough Specimen ID: 2527

Growing in sand at the base of dead jarrah tree.
Latitude: -31° 56' 53.45" Longitude: 116° 1' 40.46"
Easting:408126 Northing: 6464895 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG15

17 Undetermined Discomycete
Photographer Neil Goldsborough Specimen ID: 2528

Growing on a gum nut in casuarina, eucalypt and balga forest.
Latitude: -31° 56' 53.42" Longitude: 116° 1' 39.92"
Easting:408112 Northing: 6464896 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG17

20 Undetermined Discomycete
Photographer Neil Goldsborough Specimen ID: 2529

Growing in sand under litter in sheoak forest.
Latitude: -31° 56' 53.35" Longitude: 116° 1' 39.83"
Easting:408110 Northing: 6464898 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG20

25 *Psathyrella* sp.
Photographer Neil Goldsborough Specimen ID: 2530

Growing in sand in litter and veldt grass under jarrah, in jarrah forest.
Latitude: -31° 56' 52.66" Longitude: 116° 1' 39.57"
Easting:408103 Northing: 6464919 Zone: 50
Date: 16 Jul 2006 opt Image MV64_176NG25

	**30 *Entoloma* sp.** Photographer Neil Goldsborough Specimen ID: 2531 Growing in sand in litter and veldt grass under jarrah, in jarrah forest. Latitude: -31° 56' 52.59" Longitude: 116° 1' 39.68" Easting:408106 Northing: 6464921 Zone: 50 Date: 16 Jul 2006 opt Image MV64_176NG30
	**33 *Laccaria lateritia* Brick Red Laccaria** Photographer Neil Goldsborough Specimen ID: 2532 Growing in sand in litter in eucalyptus and sheoak forest. Latitude: -31° 56' 49.95" Longitude: 116° 1' 40.45" Easting:408125 Northing: 6465003 Zone: 50 Date: 16 Jul 2006 opt Image MV64_176NG33
	**36 *Mycena sp.*** Photographer Neil Goldsborough Specimen ID: 2533 Growing in sand in litter in eucalyptus and sheoak forest. Latitude: -31° 56' 49.91" Longitude: 116° 1' 40.48" Easting:408126 Northing: 6465004 Zone: 50 Date: 16 Jul 2006 opt Image MV64_176NG36
	**38 *Amanita* sp.** Photographer Neil Goldsborough Specimen ID: 2534 Growing in sand in sheoak litter in sheoak forest, with some jarrah present. Latitude: -31° 56' 47.83" Longitude: 116° 1' 40.30" Easting:408121 Northing: 6465068 Zone: 50 Date: 16 Jul 2006 opt Image MV64_176NG38